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W.D. Koenig
1986

Hastings Reservation
Melanerpes formicivorous

Doubly-labelled Water

Hastings Reservation

51A ♂754 at Y. 18 April 1120 injected w/ 250 µl H^3O_{18} (good injection). Wt: 88.9 gm
Blood taken: 1224 (wt: 86.1g) Released: 1225
(No 2nd sample recovered)

22 April

52A ♀1207 at LA2. 1226 injected w/ 230 µl H^3O_{18} (good inj.) Wt: 81.6g
Blood taken: 1332 (wt: 79.9) Released: 1334

30 April

53A ♀675 at Y. Injected at ~~844~~ 744 PST w/ 220 µl H^3O_{18} (good inj) Wt: 79.8g
Blood taken: 852 PST (wt: 77.8g) Caught in net at nest.

1 May

53B ♀675. Blood taken 914 PST (wt: 80.9g) Caught feeding at nest.

21 May

54A ♀984. Injected at 1215 w/ 249µl (wt:) wt: 78.8g. Blood taken 1321 PST Wt: 78.1
(Plaque Helper)

29 May

55A ♀ Breeder. Western Bluebird at box ~~254~~ 246 (box w/ helper, old babies).
Injected w/ 75µl H^3O_{18} at 730 PDST (wt. 27.8); bled at 0826 (wt 26.0)

30 May

55B ♀ Bled at 0842 (wt: 26.0g). (Box 246)

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Chongo HNHR

10 January 1200. Counted stores: 690. Things are pretty much filled, but I'd imagine they could fit several hundred more in (although they do have some in fallen limbs) so I'd give them an estimated maximum capacity of 900.

Also, there's a nice new hole in the granary facing downhill a bit above the old hole (which still looks fine).

18 January *Group Update*

~~♀882. Last seen 2 Feb '85 (Philip), gone by spring~~

♀1109. Not seen after banding on 20 June 1985.

♀1111. " " " " " " " "

22 March *Group Update*

Resurrect ♀1109 → seen by Katy 18 March.

18 April 1030. No birds in any of the known holes. There are acorns remaining here, however.

26 April 1700. Opened the nest, which is high in the sycamore over by the spring: 7 eggs! Incubated. Are there 2 ♀♀ here?

5 May 1215. 4 babies in the nest. We took 2 (1 runt, 1 normal) and are transplanting the big one to Plague.

6 May 1430. Returned the 1 baby; we kept the runt in the lab for now.

20 May Banded the 3 babies as #1263-1265.

7 June *Group Update*

♀979. Last seen 30 Oct '85 (Katy); gone by 27 Feb.

♀980. " " " " " " "

Both D.A. ~ 15 Dec. '85 ± 2 months

♀872. Joined the group presumably ~ 15 Dec. 1985.

Now breeding, apparently and inexplicably, with

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Est FED = 12 April
Set size: 7
Fledged: 3

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Chongo Nest Record

HINHR

26 April 1700 — 7 eggs, incubated
≥1 not developed

5 May 1215 — 4 babies, 1 ~~unhatched~~ undeveloped egg, 7.6g
(1 baby a runt ~8 days old)

20 May 1630 — 3 babies banded #1263-65

	(1263) Mauve	(1264)	(1265)
20 May 1630	85.8g (75)	84.0g (75)	86.1g (77)

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Chongo HNHR

(7 June) ♀1109. Apparently breeding now (!) incestuously with her brother ♂1110. (Based on 7 eggs in nest).
Became a breeder 15 Dec 1985 ± 2 months.
♂1110. Now breeding (incestuously) with ♀1109.
This group now (apparently) consists of 1 breeding
* ♂ (1110) and 2 breeding ♀♀ - ♀1109 and ♀872 - themselves unrelated, but ♂1110 and ♀1109 are sibs. An interesting group!

14 December 1030. Counted stores: 372. Also, a new hole in the granary, facing downhill above the old hole.

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Buckeye HNHR

10 January 1315. I actually made an attempt to count stores here, coming up with 3020. However, I'd have to guess that they actually have closer to 4000, and that the number of holes they have is probably on the order of 4400.

No birds seen in passing.

18 January *Group Update*

3663. Last seen 13 June (Stanback); gone by 24 Sept. for sure (Katy): D.A. 3 Aug ± 1 month.

j1000. Not seen after banding on 15 May 1985.

12 April 1430. Checked the nest (in the same hole as last year: 4 eggs, incubated.

6 May 1520. Banded the babies (3): now #1215-1217.

7 June *Group Update*

31001. Last seen 10 December '85; gone by 24 Feb '86 → DA 17 Jan. ± 1 month.

Melanerpus formicivorus

Buckeye Nest Record

12 April 1430

6 May 1520

HNHR

4 eggs, incubated

3 babies, banded as #1215-1217

	(1215)	(1216)	(1217)
6 May 1530	84.3 (74)	80.8 (82)	80.9 (74)

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Plaque HNHR

12 January 1600. Counted stores: Plaque tree: 2981 } 4991
Barn 64 } ~~4994~~
2° tree 977 ~~979~~
Tel Pole 969 } (inc. 400 in syrofoam block and 400 in roost hole)

These birds have acorns in a lot of places I haven't seen or noticed them before. They are also pretty full, but I'd have to give them a capacity of 5500.

18 January *Group Update*
♀1067. Last seen 12 July (Missy); gone by 23 Sept. (Katy): D.A. 18 Aug. ± 1 month
3723 3983, 31089 31090. All joined Plaque (from Plaque Annex) ~20 June 1985. 3983 last seen on 12 July feeding at Plaque; gone by 23 Sept → D.A ~ 18 Aug ± 1 month.

15 April 31089 over at Blomone power struggle (identity probable but not certain) this morning.

18 April 1000. 3 eggs in the nesthole in the 2° granary! They were nicely grated by dirt, allowing me to (fairly confidently) number them 1-3 in the (probable) order they were laid.

23 April *Group Update*
♂1090. Now at Refute!.

5 May 1300. Caught ♀984 in the nest as we went up to steal the babies for metabolism. We did the following: ① took all 3 babies, but ② replaced them with a Chongo baby (banded Mauve) so they wouldn't fail.

6 May 1500. Returned the babies ~~from~~ to the nest and took the Chongo bird back.

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FED = 16 Apr.
CS = 6 eggs

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Plague Nest Record

HNHR

18 April 1000				3 eggs, numbered 1-3 (in probable laying order, see notes)
22 April (Mark)				6 eggs
28 April 1730				still 6 eggs; seem OK.
4 May 1400				3 babies, 3 undeveloped eggs
	① Wh	② Yel	③ Yel Wh/out	
4 May 1400	13.9	11.0	7.8	
5 May 1300	17.7	14.1	9.2	
12 May 1130 (Mark)	49.2	45.0	26.6	

2nd nest

16 June (Katy) ~~16 June~~ 4 eggs, dirty & cold.
5

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Plaque HNHR

7 June *Group Update*

♀1071. Last seen 4 Dec. '85, gone by 5 Dec '85. (Katy)
→ DA. 5 Dec '1985.

♂1089. Last seen here on 6 March, gone by 11 March. Now at CV#1 as of June.

14 December 1000. Counted stores: 1855 (Plaque tree)
200 (2° tree)
300 (tel pole)
} 2355.

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Y HNHR

18 January *Group Update*

Note that we have 2 groups here again: Y and the Knoll Set. See Katy's notes for details.

♀971. ~~Last Seen~~ This bird is gone, but we need Philip's notes to find out when. Apparently she was last seen for sure on 26 April and may have disappeared then. Philip saw her 31 Apr, gone 30 June → DA 31 May ± 1M.

j1013. Not seen after banding.

j1136. " " " "

♂1012 } Moved to Knoll Set, 15 Oct. 1985. See Katy's notes.
♀1015 }

5 April *Group Update*

♂1014. Last seen 22 Oct (Katy), gone by 24 Oct → D.A. 23 Oct.

13 April 530. Last night Mark S. and I caught ♀675 and ♂754 together in the canyon hole. This morning (early) I released the former, holding onto ♂754 for the 3rd temporary ♂ removal of the spring.

Temp ♂ removal

18 April 1100. Well. It turns out they have a nest here in a new hole in the locusts by the barn, ~~so~~ and they have babies.

So obviously the ♂ removal is screwed up. So I injected him in an attempt to salvage something and let him go.

1400 Opened the hole. 3 babies + 1 runt egg (!); babies are probably in day 3. That means hatching on 15 April, last egg on 5 April, and est FED of 2 April.

20 April Tried to catch ♂754 feeding, but he never came to the nest. My 1st failure to complete a labelled water run.

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First
Est FED = 2 April
CS = ? ≥ 4 eggs
2nd
FED 6 June
CS = 5 eggs
HNHR

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Y Nest Record

18 April 1100 — Nest found: babies

1415 — 3 babies, 1 runt egg (!)

18.6 × 15.4

		① 1227	② 1228	③ 1229	
18 April	1415	14.1	12.6	13.4	Not marked
3 May	1430	74.2	73.3	69.5	still not marked
Banded 8 May	(Mark)	87.1	81.5 (63)	81.5 ~~63~~ (68.5)	

* 2nd nest *

8 June 950 — 3 fresh eggs

12 June 1430 — 5 eggs

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Y HNHR

30 April Caught ♀675 in a net at the nesthole this morning, injecting her for DLW.

7 June *Group Update*
♀1134. Last seen 20 January, gone by 4 Feb → DA
27 Jan ± 1 week.

8 June 950. Checked the nesthole: 3 fresh eggs! Another 2nd nest.

12 June 1630. 5 eggs now.

18 June 1600. ♂669 up in front of the barn.

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Knoll Set HNHR

18 January *Group Update*

The 3 birds present here are j♂1012, j♀1015, and an ub ♀. Katy has extensive notes; they were getting serious ~15 October so we'll have them founding the group by then.

5 April *Group Update*

♂1012. Last seen 24 Oct, gone by 13 Nov → DA. 3 Nov ± 1 wk.

♀1015. Same.

See Katy's notes about this group. The ub ♀ is still hanging out here, but she seems to be by herself.

8 June There is certainly no group here anymore. It's quite possible that the remaining ♀ "moved" to Refuge 1 at the beginning of April.

→ ♀5234. Disappeared about 3 Apr. Could have moved to Refuge 1 (or been there, more or less, all along).

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Refute! HNHR

23 April Official opening of this territory in the 2nd canyon - originally (and still mostly) an artificial granary. They apparently have acorns, so they must have been here most or all of the winter. Here now are

*No - see below.

① ub ♀ (now #5243).

② ♂1090 from Plague Annex. No, see below

We will put them as having moved here ① Nov ± 2 months (Except that we need to look up ♂1090's history at Plague)

Well! Katy's notes clearly show that ♂1090 has been at Plague all winter and he was last seen there on 2 April. So! We will instead have this group being founded on 5 April, and I better go take a look at those stored acorns that are presumably there. Of course, the ♀ may have been hanging out there for awhile, but Katy assures me there wasn't a group there this winter.

25 April Finally came over here. There are 2 artificial (that is, we put them up) limbs with granary holes in the tree, but virtually no other storage facilities here. Furthermore, there are no discernable acorns stored. So the group was very plausibly formed ~~at~~ in spring.

8 June *Group Update*

Not sure anyone's here anymore. See Mark's notes.

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1500 HNHR

18 January *Group Update*
j1101. last seen by Missy on 7 July, gone by 25 Sept. (Katy) → D.A. 16 Aug ± 1 month.

6 February 1400. Counted stores: Main tree: 1948 } 2119.
2° tree: 171 }
The granaries are not especially full; I'd set the maximum number of holes here to at least 3000.

10 April 1030. Climbed to the hole in the main tree where birds have been seen. No eggs yet, but the hole looks ready.

17 April 1300. Bird in hole again: opened, 2 eggs, fresh. I marked them #1 & 2.

20 April *Group Update*
j1099. last seen 26 Sept (Katy), gone by 28 Sept, → D.A. 27 Sept. 1985. (In fact, Katy appears to have seen this bird up on School Hill on 27 Sept.).

23 April 1000. Checked the hole: 4 eggs (Susan checked).

30 April 1045. Checked the hole: 3 eggs pipping (1 shows egg-tooth already) while 1 egg doesn't seem to have developed. Thus: today is hatching day 0.

12 June 1230. A "todo" here. Watching. Six+ birds were here chasing a few minutes ago. Seems like lots of ♀♀...?
There are acorns left here in the granary.
1300. ① ♂ Yel/or #297 here; looks like with ≥ 2 ub ♀♀. There are definitely ≥ at least 2 ub ♀♀.
1305. 1 of the babies around: j w/ #1275. ② j Yel/M #1274
Still some chasing. Looks clear: ♀601 is gone; 2 new ♀♀ here, nesting to be caught. ♂1100 not here also.

FED = 16 Apr
CS = 4 eggs

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1500 Nest Record — HNHR

17 April 1315 — 2 fresh eggs, cold. Marked #1 & 2.

23 Apr 1000 — 4 eggs

30 Apr 1045 — 3 eggs pipping, 1 not level.

3 May 1400 — 2 babies, 1 unhatched egg.

		① yellow left leg	② white out right leg	1 unhatched egg
Day 3	3 May 1400	12.9 g.	11.0 g.	
9	9 May [Sue]	32.0	28.5	
12	12 May [Mark]	48.5	44.3	

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1500 HNHR

(12 June) This is no doubt the end of here of at least a minor power struggle.

14 September Ambushed this evening at the big hole in the main granary, nabbing ♀1274 and the remaining unbanded ♀, now ♀1367.

Group Update

♀601. Last seen in a nestwatch on 9 May, gone by the power struggle on 12 June; → DA: 5 June ± 1 wk. She was replaced by 2 ub ♀♀, one of whom we caught on 29 June (♀1329 - no listing for her short time as an ub bird) and ~~♀1367~~ the other on 14 September (♀1367, formerly ♀5251). Both moved here ~12 Sept. 1986

4 December 1200. Counted stores: Main tree: 1292 } 1446
2° tree: 154 }

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1800 HNHR

18 January *Group Update*
j1094. NSAB on 1 June 1985.
~~We have no confirmation of this, but the field~~ ~~list says that~~ Missy

6 February 1500. Counted stores: Main tree: 2048 } 2225.
2° tree (by 1500): 177 }
These trees are pretty full but not really stuffed. I'd set the number of holes here at ~2800.

5 April *Group Update*
♀785. Sadly appears gone. Last seen 28 Sept., gone by 22 Oct → D.A. 10 Oct ± 2 wks.
♂1162. Last seen 22 Oct, gone by 13 Nov.; DA ⇒ 3 Nov ± 1 wk. [Nice try, but I caught him on 11 Apr.!]

11 April 600. Ambushed at the ~~nest~~ same old hole, getting ♀770 and 3 helper ♂♂. A 5th bird was in the hole but escaped. ♀770 was taken and put in the aviary as part of the 2nd temporary ♂ removal for the year.
(Temp ♂ removal)

14 April 1030. Mark saw a bird in the hole this morning (same hole as the ambush) so I climbed up and checked: nothing. But obviously this doesn't mean they haven't started already, so tomorrow should be an egg-tossing watch for sure!

~~17~~ April 1330. Katy watched this morning, seeing what could have been egg-laying but apparently wasn't, as noone tossed (up until when she left, anyway) and there are now no eggs in the nest. See her notes for more details. They are obviously getting very close, however, and tomorrow could very well be the day.

18 April I watched this morning starting at 555. Nothing seemed

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1800 HNHP

(18 April) to happen until 700, when ♂771 came to the hole and looked it, as if a ♀ were inside. Which, as it happens, one was - but I completely missed who she was. In any case, ♂771 left at 707, followed by the ♀ at 709. Since then noone at all has been to the hole, and (at 800) I'm about to go up and check it.

800. Well, whoever it was, laid an egg, now marked #1. The nest is on. (I assume this egg will get tossed sometime today).

19 April 800. Katy watched this morning, but she was gone by the time I got here to check the nest, which is now empty. So they tossed out not only yesterday's egg but whatever was laid today.

20 April The score so far (as of this morning): ♀787 has laid 3 eggs, 2 of which have been tossed (1 by ♀193 for sure). The 3rd is still in the hole as of this morning. None (including the one Kaby saw tossed yesterday) has been a runt egg (making me wonder about 17 April - did she lay then?). See Katy's notes for details.

21 April Katy watched again today (Mark climbed): yesterday's egg is gone, ♀787 laid again, not tossed by the time Mark checked.

22 April Susan watched this morning: both ♀♀ went in (along with the ♂♂) but there were no eggs when I checked.

30 April 1400. Clutch is now complete with 6 eggs. (See nest record) (my guess is: ♀193 4 eggs, ♀787 2 eggs). Note also that tossing did not go on as long as it might have - restraint once again. However! It is now time to let ♂770 go, which I have now done following a nest check.

1415 Watching the nest.

30 April Nestwatch

1430 watching
~~1430~~ 1440 ♀193 E
♀193 ♂? leaves
1450. ♂771 E, ♀L
♂771 1505:45. ♀787 E, ♂L
♀787 → 19.00. ♀193, ♀L
♀193 1600. ♀193 still in, LO, Me leaving

FED: 18 April
CS(set) = 6 (♀193 = 4)
eggs tossed: 5 (all by ♀193?)

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1800 Nest Record		HNHR
18 April 800		1 egg (laid this morning) by ? #1 : 22.3 × 18.4
19 April (Katy) 800		♀787 laid ; ♀193 tossed No eggs in nest (#1 gone)
20 April (Katy) 800		♀787 laid 1 egg (now #1) : 24.0 × 19.2
21 April (Katy)		♀787 laid : 24.5 × 19.0 (20 Apr egg gone)
22 April (Susan) 805 (I climbed)		Nobody laid; no eggs in nest
23 April (Katy) (Mark climbed : empty)		Everybody in hole : 1 egg laid, ♀193 tossed (presumably ♀787 laid)
24 April (Susan)	Not tossed ♀193?	1 egg laid by ? No tossing ① 24.3 × 19.5
25 April (Susan)	Not tossed ♀193?	① still there. 2nd egg laid by ? ② 24.5 × 20.3
26 April (Susan)	Both	Both eggs still there; both ♀♀ laid : 4 eggs now ③ ④
27 April (Susan)	Both	No eggs laid by 0730. I think 2 eggs laid after Susan left. ⑤ 24.1 × 19.2 ⑥ 24.3 × 19.2
28 April (Susan) 1530		No eggs laid after 0515. Still 6 eggs
30 April 1400		" " " (♂770 released)
1 May PM - 2 May AM		♂770 tossed all eggs ! (see Mark's notes).

FED: 13 May
CE: 8
NHatched: 6

Second try
11-12 May Not watched
13 May 830

2 fresh eggs
① 23.9 × 19.1
② 22.7 × 18.7

14 May 1430

4 eggs
did not develope → ③ 22.7 × 19.1
④ 24.2 × 19.0

15 May (Mark)

6 eggs (1 broken by us)
⑤ 24.2 × 19.2
⑥ Broken by us

16 May 1700

7 eggs
did not develope → ⑦ 23.9 × 19.5
⑧ 24.5 × 19.1

18 May 1000

8 eggs
⑨ 23.9 × 19.2

29 May 1745

Babies have hatched
In nest: 4 live babies, 1 dead baby, 2 unhatched, undeveloped egg

	1322 ① WR	1323 ② LB	1324 ③ Y-B	④ 1325	⑤ (dead)
29 May 1745 day 27	15.1	14.3	16.0	9.1	6.7
18 June 1030	93.1 (83)	84.8 (79)	79.1 (83)	79.2 (68)	

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1800 HNHIR

(30 April) 1600. Mark taking over -

1 May Arrived at 513. Already there was a ♀ in the hole along with ♂770 (!). ♂770 proceeded to remain in the hole continuously (with the exception of 3 brief [<10s] climbs out of the nest) until 707, when he finally flew out. During that time the rest of the breeders (all 4 of them) pretty much carried on incubating as though he weren't there, or at least wasn't very important. At least 8+ changeovers occurred. ♂770 would occasionally look out (I never saw a trace of anything suspicious on his bill) but the others tended to changover among themselves oblivious of him - that is, as though they knew he wasn't incubating. This was especially true for ♂771 and ♀193; ♂774 and ♀787 did come to the hole several times and leave, even though only ♂770 was inside. As a result, ♂770 was alone only a few times inside the hole and generally only for a short time. But long enough to do damage if he'd been so inclined. In any case, there's no question now that he knows about the nest ~~and~~ or that he's been accepted back into the group.

730. Katy taking over.

1100. Climbed nest: all 6 eggs ok. Now watching.

1230. Sue taking over. (Sue went to ~1500; then Mark took over,) → but not until ~1800. By that time he had begun tossing!)

3 May He tossed! See Mark's notes for all the details, but the result was decisive: he started tossing ~~this~~ the afternoon of 1 May, and finished on the morning of 2 May. Nest is now empty and they get to start again!

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1800 HNHR

13 May 830. Katy watched this morning and though both ♀♀ might have laid, as, indeed, they had: 2 fresh eggs. (Since we hadn't watched for several days, we don't know if they had tossed or not this time.)

8 June *Group Update*
31164. Moved to Outback between 21-29 April
→Moved 25 Apr. 1986.

14 December 1230. Counted stores: Main tree: 1822 } 1892
2° tree: 70 }

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Horsetail HNHR

6 February 1520. Not only did I scare 1-2 birds away from the granary (artificial) here, but there are on the order of 150 acorns stored here. Who are they?

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Hay-Blos HNHR

18 January *Group Update*

♀1086. Last seen by Missy on 22 June, gone by 29 Sept -->
D.A. 10 Aug ± 1 month.

20 January 1615. Counted stores: 3696. I have no doubt I missed several hundred as well. I'd put capacity at 4000; the tree is quite stuffed full.

5 April *Group Update*

There's been a ♀ turnover here! Mom is gone, 2 ♀♀ from CVCeramic have joined:

♀604. Last seen 1 Feb., gone by 26 March, DA -> 1 Mar ± 1 M.

♂♂1083, 1084, 1085. All now "breeders," although 1085 may not be here anymore. (They have inherited.)

♀941. Moved here with ♀1078 ~ 1 March (was seen at CVCer on 21 March, but Katy thinks she was probably already up at H-B, which is not unlikely).

♀1078. Moved here ~ 1 March from CVCeramic.

19 April 600. A good attempt at an ambush up in the large Valley Oak on Hastings failed when a new exit appeared above the ambush hole. I did, however, catch 1 unbanded, probable 1st-yr ♂, who is now #1206. Who is this bird? There are not supposed to be any unbanded birds here!

830. Back up here with a net in the granary on the off chance I can catch someone.

1130. Giving up.

20 April *Group Update*

♂1085. Last seen 1 Feb, gone by 26 March -> D.A. 28 Feb. ± 1 Month.

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Hay-Blom HMjHR

21 April 515. A net set up at an old nest hole (pre) dawn got 2 birds (at least one escaped): ♂1206 again!!! (who is this bird? and what does he want?) and ♂1084, one of the sons who has now inherited, and will have to do for a temporary ♂ removal.

♂1084 temp ♂ removal

28 April *Group Update*

♂1085 still alive and here, seen by Katy 26 April.

11 May 1100. Flushed a bird from one of the new holes: could be it.

1445. Opened the hole: 8 eggs, incubated!

12 May 1620. After a full morning of incubation watches here we fulfilled the climax of the 2nd temporary ♂ removal of the year with the release of ♂1084. Immediately following I checked the hole, where there are still 8 eggs, and began our nonstop vigil.

♂1084 returned

1620. Watching.

♂1083 [1702. Finally someone came: ♂1083.
♂571 [1716. ♂571 enters; ♂1083 leaves.
[1732. ♂ leaves. Hole empty. (Lots of calling over at the granary).
♂1083 [1737. ♂1083 enters
[1812. ♂1083 L; ♂571 E
♂571 [1821. ♂571 gave 2 Garricks and left
♀941 [1826. ♀941 E.
[1839. ♀L; ♂1083 E
♂1083 [1902. ♂L. Hole empty (sun going down).
♂? [1903. ~~♂?~~. ♂? in (not ♂1084.)
[1915. ♂L
♂1083 [1920. ♂1083 E
1930. Think he's it for the night. (Note that "squeaky" is still outside - he is ♂571).
In any case, I'm going —

13 May 1145. Taking over from Sue. ♂1083 in hole (see back).

15 May 4 eggs had hatched by this evening (Mark)

16 May 7 eggs have hatched; 1 egg prob will not.

8 June *Group Update* ♂1206, first caught roosting

13 May 1145-

♂1083 | 11:45. ♂1083 in hole. (starting with the end of Sue's watch)
:53.00. LO
:53.45. BD
12:04.20 LO
:06.30 Leaves

♂571 | :10.40. ♂571 E
:44.45. ♀941 E, ♂L

♀941 / ♂1083 | 13:01.20. ♀L, ♂1083 E
9.00 LO
9.40 BD
:13.45. ♂L; ♂571 E

♂571 | :17.50. ♂L

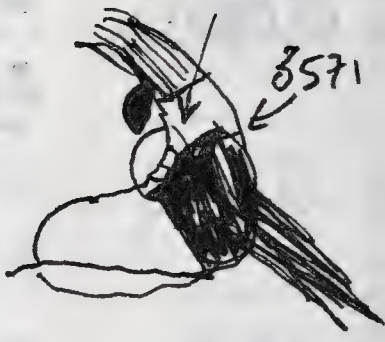
♂1083 | :20.00 ?? ♂1083 E Missed his entry.
:49.20. ♂1083 L ♂1085 In the tree

♀941? | :49.30 ? ♀? Presumably ♀941

♂1083 / ♂571 | :59.00. ♀L. ♂1083 E
14.05.45. ♂L. ♂571 E
:23.15. LO
:28.15. BD
:44.15 LO
:44.40 BD
15:01.00. ♂571 still in, but now LO as Katy comes to relieve me.

End.

♀1078 is here in the tree!



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Hay-Blom Nest Record

HNHR

11 May 1445 — 8 eggs, incubated

12 May 1615 — Still 8 eggs (♂ 1084 released)

15 May (Mark) — 4 eggs hatched

16 May 1630 — 7 eggs hatched, 1 egg:

		1299 Wh ①	1300 Yel ②	1301 R-DB ③	1302 LB ④	1303 Blk ⑤	1304 Org ⑥	1305 Y Beak ⑦
Day 1	16 May 1630	8.1	10.2	9.6	10.6	5.9	6.2	4.5
1 unhat. egg 3	18 May 915	14.0	17.1	16.2	14.9	10.7	10.6	6.9
the unh-egg. 4	19 May 1145	19.2	21.9	21.7	20.9	16.1	15.9	9.9
" " "								
shoved into a corner 6	21 May 1245	28.5	28.6	29.8	29.1	23.4	21.5	16.5
		[These 4 taken to the lab for the day. Returned at Dusk						
8	23 May 1630	36.2	39.7	39.0	38.3	32.8	29.9	17.5
10	25 May 1030	48.0(20)	51.5(21)	49.6(21)	50.8(22)	43.8(18)	37.7(16)	27.4(14)
		[Taken to Lab for the day			]			
12	27 May 1230	56.4	60.0	61.2	58.0	55.2	49.2	33.7
14	29 May 1045	66.8(34)	66.6(35)	69.0(35)	70.1(36)	66.2(29)	57.2(25)	41.0(20)
15	30 May 915	66.8(39)	66.1(40)	66.8(39)	71.8(41)	67.2(34)	58.0(30)	42.9(22)
		[Taken to lab for the day.						
	7 June 1430	75.5(83)	77.8(72)	82.8(85)	78.0(85)	78.2(79)	76.2(70)	70.5(57)

Melanerpes formicivorus

Hay-Blem HNHR

(8 June) here on 19 April, does in fact now live here and is feeding babies. We don't know who he is or where he comes from, but it seems unlikely that he's a baby from a fall nest (Katy never saw babies here). So, we have to presume that he is an unrelated bird who just joined the group, and is presumably now a breeder.

Melanerpes formicivorus

Lower Haystack HNHR

19 January *Group Update*

8972. Last seen 30 ~~May~~ May (caught by me); gone by ~~3 Oct~~ 3 Oct (Katy) → D.A. 30 July ± 2 months.

j1043. Last seen 5 July (Missy), gone by 3 October → DA. 20 Aug ± 1 month

j1044. NSAB.

j1045. Last seen 5 July (Missy). gone by 3 October → DA. 20 Aug ± 1 month.

j1145. NSAB.

20 January 1600. Counted stores: Main VO: 4730 } 5250.
2° tree: 520 }

These guys have a lot of acorns. I'd set full capacity at about 5600.

10 April 1135. There's one fresh egg in the regular hole in the main granary.

13 April 1600. 4 eggs, marked. Noone in the hole.

15 April ♂1146 at a power struggle at Blomone today; see Blom1 notes.

17 April 1345. Now 5 eggs, warm. They all are still translucent, and the new one (#5) still looks brand new.

19 May 1200. The babies taken for metabdic runs for the day. 1 Gazebo baby in to take their place.

7 June 1530. Found the 2nd nest over in the Blue Oak hole - it has 5 eggs, pretty fresh but not pristine.

FED = 10 April
CS = 5 eggs

Melanerpes formicivorus

Lower Haystack Nest Record

HNHR

10 April 1135 — 1 fresh egg, marked #1

13 April 1600 — 4 eggs, #1 + 3 new ones marked 2-4.

17 April 1345 — 5 eggs, 1-4 + new #5.

25 April [Mark] — 4 babies, 1-2 days old (egg #2 not hatched)

11 May 1100 — 4 babies, taken for metabolic runs (one baby from LA2 put in for now)

		① Yel RL	② LB LL	③ LG LL	④ Red
Day 17	11 May 1180	70.7	75.8	73.6	64.9

~ All were returned on the evening of 11 May ~

* 2nd nest * (in Blue Oak hole)

7 June 1530 — 5 eggs, not pristine but fresh.

Melamerpes formicivorus

Gazebo HNHR

14 April 1430. Nest in a new hole in the large Valley Oak off on the (far) side. It has 4 eggs, which look fresh enough to be newly laid (although a bird was in the hole yesterday as well as today.) I'd give the est FED as 11 April.

17 April 1415. Now 5 eggs in the nest.

25 April 1810. 3 newborn babies + 2 unhatched but developed eggs.

27 April 1715. All 5 hatched now, weighed, marked & photographed.

4 May 930. Nest wired up for measuring temperatures.

22 May We were here from 905-935 today banding the babies as #1266-1270. (The wires are still up)

24 May Transmitter was removed from j1269 yesterday by Michael Murray of Coast Vet. Hospital - it wasn't easy. He is just fine, however, and I put him back in the hole today at 1000.

8 June *Group Update* 27 (Katy)
♂942. Last seen ~~28~~ March, gone by 29 April
→DA. 14 April ± 2 weeks. A rare breeding ♂ apparently lost during the breeding season.

12 June 900. Bird in nest hole from last year. No sounds, however.

13 June 730. Checked the hole: empty. Not even in real good shape for a nest (no ~~sawdust~~ wood chips).

11 July 1215. Checked the 2nd nest: 4 babies, ~3 do, no eggs.

FED = 11 April
CS = 5 eggs

Melanerpes formicivorus

Gazebo Nest Record

HNHR

14 April 1430 — Bird in hole. 4 eggs, fresh
Eggs not marked.

17 April 1430 — 5 eggs; marked 1-5.

25 April 1810 — 3 babies + 2 unhatched but developed eggs

			1268 Orange Blue on Right side ①	1267 Green Blue on Left side ②	③ Blue-brown 1268 dark band ④ White ⑤ Yellow-White		
0	25 April 1810		6.1g	5.0	4.9	egg #1 pipping?	egg #2 Not pipped
Pictures 2	27 April 1715		12.0g	10.3g	9.9	10.1	8.0g
Photos 4	29 Apr. 1750		19.0	17.3	15.0	17.1	11.6
Implant 9	4 May 920		37.5	31.5	30.0	36.5	25.5
Taken to lab 12	7 May 1130		38.4	33.6	32.3	Implanted [36.0] Left in nest	31.7
			All babies look thin!				
Wired up again (15)	10 May 1030		58.0(30)	51.0(25)	51.2(26)	[58.4(25)]	51.0(22)
	18 May 1230				Taken to Blo Methree	still has transmitter	
Banded.	22 May 900		84.3(93)	78.0(91)	77.7(86)	86.2(86)	85.4(86)
						↑	
						902-42971	

NTS

23 June — 1 fresh egg
7 July — 6 eggs
8 July — 4 kids, 2 eggs
29 July — Band 4 kids

Melanerpes formicivorus

Blomore HNHR

19 January *Group Update*

j1165. NSAB (banded 3 Aug).
j1166. " .
j1167. " .
j1168. " .

A bad brood here: only 1 of 5 made it at all.
j968. Philip saw this bird (but failed to sex it) on 31 Jan 1985; most likely gone by 24 April (Missy) → DA 12 March ± 1 month.

5 April *Group Update*

8830. This bird was presumably seen by Philip on 30 Jan 1985, and gone by 16 April. DA → 8 March ± 1 month.

♀965. Last seen 20 Oct. (Katy) gone by 11 Nov. → DA 31 Oct ± 1 wk.
♂1169. Same.

15 April 700. Caught 4 birds in an ambush this morning: ♀809, ♀812, j♀1169, and j♂1167 (the bands of the latter 2 were messed up, thus probably explaining why they had been deleted from the field list). I kept ♀812. Unfortunately, by the time I released ♀809 at 645 there was already a minor power struggle erupting, which I'm now back watching at 845.

♂832?? I don't think so?

845. Some drumming, garricks, etc. ① ♀ +Blk-BPk(n)/M with ③ ♀809. In granary. ③ ♂ or/Blk #492. ④ ♂ Blk-BPk(n)/M #832
An ⑤ub ♀ looking furtive. There are ~ 4+ birds on the periphery as well. ⑥ Blk-LP(n)/LG #1169. There are at least 2 intruders here, but probably not more than 3.

Melanerpes formicivorus

Blomore HNHR

(15 April) 900. It looks like the residents are pretty well in control, however.

(no6) ♂1089 from Plaque

②♂1146 from Lower Haystack

♀1170 from BloM3

♀945 from BloM3

920. Over on the side (in direction of Far Knoll) it looks like ①♂ M/DB #1089 DB/Wh-DB ; at least 2 others. ②♂ Or/Red-Wh #1146 + 2♀♀. These birds are not really participating in the power struggle. ③♂ M/BP-Wh(n) ← thin ones ♀ Red-Or(n)/LG-Blk 1170 ④♀ LB/Wh-LB #945 An ⑤ub ♂ over here causing trouble as well. (Maybe not - all 5 may be in this together). All 5 of these birds are in the trees to the north of the granary, but do not appear to be mixing at all with the fighting going on there.

940. Back at the granary: ♀1169 prominent. ♂832 definitely here. In the trees just above the granary: 2♀♀: ① ♀ Or-Wh/Mauve #998 Wh-Or/Mauve (Leg not seen well) and ② ♀ Good → Red-DBlue / Wh-Red LP-LB / LP-LBlue (Leg not seen well.) (Yes) ↔ ③ ♀ Both are ♀1119 Yel-LG / Yel-LG (Maybe same as ②; leg seen well.) These 2 (3?) birds are up above the granary for the most part.

①♀998 from Warp 5

②♀1119 from CV#2

1015. Still some chasing in the granary, but things are calming down. Only bird not obvious is ♂1167 who I caught this morning; he may in fact have truly dispersed and only come home for the night.

There have even been copulations between ♂492 and ♀808, so she's still in tight, at least.

Also I should note that it's ♀809 doing the most drumming here!

1030. I'm getting cold. Kaby should be here shortly to watch some more, but I'm going. There's still some chasing, but the situation looks pretty stable to me; they shouldn't have much trouble keeping control.

Melanerpes formicivorus

Blomore HNHR

19 April *j1165 (maybe?) seen over between Blomtwo and Blomthree* See Blomthree notes.
(Change this bird to Moved 0 Feb 86 ± 3 months.)

19 May 1400. Opened a new hole that looked promising, but nothing. It is in good shape, however.

24 May 1045. Whoopee! Bird in the 1st nesthole from 1985! A nest! A fresh eggs!!

25 May 1030. Still 4 eggs. Bird incubating.

28 May 1530. Today's The day. Released ♀812 with blue marks on her forehead and began our watch. (After measuring the eggs.)

30 May She did it! ♀812 tossed the eggs near mid-day today. See Katy's notes! Whoopie!

3 June 1430. Checked the hole: empty still.

4 June 1845. " " " " "

5 June 1530. " " " " " But! A bird in another hole in one of the side trees: it's empty too, but could be worth watching there.

6 June 515. Watching the side hole. Noone there at the moment.
615: Dullsville. Nothing here, nor (from a distance, at any rate) the 1st nest hole. I'm leaving. It's basically cold and crummy out.

7 June 1345. Bird ♀ in side hole again, but both holes empty.

8 June Sue watched this morning: no action.

Group Update

♀808. Last seen 24 Feb (Katy), gone by 24 March
→ DA 10 March ± 1 week.

Melanerpes formicivorus

Blomore Nest Record — HNHR

24 May 1045 — 4 fresh eggs (marked).

25 May 1030 — 4 eggs.

28 May 1600 — Still 4 eggs (♀812 released)

① 26.0 × 21.6

② 24.7 × 21.5

③ 25.5 × 20.9

④ 23.1 × 20.3

30 May (Katy) — Eggs tossed by ♀812

Guesses only!

12 June 930 — 3 fresh eggs in new hole

① 25.1 × 19.8

② 24.5 × 19.8

③ 26.2 × 21.1

13 June 515 (♀812) — 4 eggs: ④* 24.8 × 19.1

830 (♀+808) — 5 eggs: ⑤ 25.2 × 20.2

14 June 800 (♀812) — 6 eggs: ⑥ 25.0 × 18.7 (♀! ♂*)

15 June 1530 (♀808) — 7 eggs: ⑦ 25.6 × 20.3

19 June 1540 — Still 7 eggs.

Melanerpes formicivorus

Blomore HNHR

(9 June) ♂1087. The bird apparently was incubating here, and was the one who let ♀812 in to toss. God knows what he's doing here; I certainly don't. He's a 1st yr bird from School Hill, and thus does have a tenuous relation here (8492 is from 1500, 1500 birds are related to School Hill). In any case, pending further watching, we add him here as of 1 May (he wasn't here on 15 April when I removed the ♀, he is there now as of 30 May).

1920. Checked the probable new hole: empty. Sue, by the way, watched here yesterday morning and saw rien (8 June); noone watched this morning.

12 June 930. 3 fresh eggs (marked 1-3) in the new hole! Assuming Philip checked the hole on 10 June, this at least means both ♀♀ are laying, but I'll have to check for sure.

13 June 515. 4 eggs in hole; 4th marked. Philip did not check the hole on 10 June, so I am clueless thus far as to who or how many ♀♀ are laying. Now watching.

600. Over in the granary are 2 ♀♀ and ?Blk/LP ♂832(??) (I thought I had a reasonable look, but there are others close to this.)

no → prob not

608. I think that is him: ♂DG-DP(M)(?)/M #832 in granary (not certain but looking likely). ②♀M, Red/Wh #809 here.

615. ③♂Or/Blk #492.

645. I now think that the bird I thought was ♂832 above is really ♂Or-DB/M #1087 instead. Those 2 are disturbingly close.

650. Here she is: ④♀DB/-LP #812. No marks left on her forehead.

Melanerpes formicivorus

Blowone HNHR

(13 June) 700. Leaving. Noone has given even a sideways glance at the hole since I arrived.

800. Upon returning, There's now a ♀ in the hole. I'm waiting trying to see if I can figure out who she is.

820. Over in granary, a bird (♂) who looks like, or is, ♂832 again.

840. Bird in hole gone. Nest checked: 5 eggs. Well, I sure didn't get what I wanted, but at least both ♀♀ are laying.

14 June Watched this morning from 435-800. Unfortunately, it was so foggy (not to mention cold) that anyone could have gone into the hole without me seeing them, and apparently someone did. Between 700-745 ♂492 went in twice (incubating?) and both ♀808 and ♀812 went to the hole, but I saw neither of them actually enter it. Nonetheless, when I checked it at 800 there were 6 eggs.

The only good thing that happened was that I noted that the dark spots on ♀812's forehead are still visible (barely); thus, based on the clear forehead of the ♀ in the hole yesterday (at 800) I presume that the 1st ♀ that layed yesterday was ♀812 and the 2nd ♀808. (Following this through, we might guess that it was ♀808's last ~~♀~~ egg yesterday (because she layed ~~to~~ so late) and thus today's egg was probably ~~♀80~~ ♀812's. See the scattergram on the back -

Melanerpes formicivorus

Blomtwo HNHR

14 April Definitely a group here!

1600. Opened the (opened) hole that the birds have been hanging out in: nothing (yet). Still will need a little work before they can nest there.

23 April *Group Update*

♀1202. Founded here (banded at Power Struggle at CVGranda 29 March).

♂1054 (?) (Probable) from CV#1. Moved here 6 Apr. Given that the ♀ was at the CVGr. PS, we will have them founding Blomtwo on 6 Apr. ± 1 week

12 May 1210. Checked the hole, where there are birds fairly frequently, but nothing yet.

Melanerpes formicivorus

Blomtree HNHR

19 January *Group Update*

♂768. Last seen 5 July (Stanback); gone by 1 Oct (Katy) → DA 18 August ± 1 month. Note that this leaves the group officially without a breeding ♂ (unless ♂989 is a breeder and not a baby from a missed fall nest).

♀945. Last seen 5 July (Stanback), gone by 1 Oct. (Katy) → DA 18 Aug ± 1 month. [No! See 15 April, below]

j1170. NSAB. [No! See 15 April, below]

5 April *Group Update*

♂1054. Last seen 24 Oct (Katy). Gone by 27 Oct D.A → 25 Oct. 1985

j1056. Last seen 27 Oct (Katy), Gone by 15 Nov. D.A. → 5 Nov ± 1 wk.

♀1057. Last seen 1 Oct (Katy), Gone by 24 Oct. D.A. → 12 Oct ± 1 wk.

j1171. Last seen 24 Oct (Katy). Gone by 27 Oct. D.A. → 25 Oct. 1985

15 April *♀1170 alive and at a power struggle at Blomone today. See Blomone notes *

*♀945 also at this power struggle. *

19 April Mark and Katy started filling me in on the mess over here, with several sets of birds here. In any case, Mark and I came over and ① saw a bird in CV6r 1st nest hole from last year: it's empty ② took a look at the "Grande Annex" nest hole (in the same area) ③ took a look at the Rajneesh area (see map on back). ④ saw several birds by Blom 3 (toward

Melanerpes formicivorus

Blomthree HNHR:

(19 April) Blom2) one of whom was ?Blk-BP(n) / Blk-BP(n) #1165(!)*
1630. 5 eggs, incubated, in the lower hole.
*if so, this is one of the Blomone babies, not seen since being banded!

25 April 1830. Eggs not hatched yet. Plenty of acorns left in the granary here.

27 April 1630. All 5 hatched now.

4 May 1045. All 5 OK; "Black" was left in the nest while we took the other 4 for metabolic work today.

18 May Today we tried to take the transmitter out of "White" (#1258) but not successfully. So we took all 5 and I put a Gazebo baby in temporarily.

19 May 1115. The 5 babies returned to the hole.

24 May The transmitter was taken out of j1258 yesterday - he is now fine and I put him back home today at 1000.

8 June *Group Update*
♀1055. Last seen 15 Nov '85 (Katy), gone by 5 Jan.
→ D.A. 10 Dec. ± 3 wks. [Could be at CV#1 (Mark)]
(~~(Mark)~~) → ♀1170. Now at CV#1, first seen there 27 May ~~25 April~~, but may have been there even sooner. Note, however, that she was feeding at Blm3 as of 30 May. So she has "dual" citizenship, of sorts.
See Mark's notes →

29 September *Group Update*
♀1170 Back now here at Blomthree, as of 25 Sept. (MTS)
~~So returned ~1 August ± 1 month~~. Was last seen at CV1 on 6 Aug, ∴ Returned home ~ 31 Aug ± 2 weeks
♀945. Now at CV#1. Apparently left at ~ same

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FED = 11 Apr. 3
CS = 5 eggs

Melanerpes formicivorus

Blomlunee Nest Record

HNHR

19 April 1630 — 5 eggs, incubated
25 April 1830 — 5 eggs, "
26 April 1800 — 4 hatchlings; 1 egg.

Day		1258 ① White	1259 ② DBlue	1260 ③ Black	1261 ④ LB	1262 ⑤ Yel
0	26 Ap. 1800	4.2	4.1	5.0	4.1	Pipping
Photos. 1	27 Ap. 1730	6.1	6.0	6.2	5.6	4.5
3	29 Apr. 1815	11.3	11.0	11.8	10.2	9.4
5	1 May 1300	15.8	14.7	16.2	15.0	14.1
8	4 May 1045	26.8	25.7	27.0	25.0	21.3
		Taken to Lab		Left in nest	Taken to lab	
	5 May 1045	Returned to nest				(Yel)
11	7 May 1000	[36.0] Has transmitter implanted in body	33.3	37.0	32.2	26.9
All but Blue wht taken to Lab 14 Returned in PM	10 May	[-]	45.5	51.0	44.3	39.1
Taken to lab again 16	12 May 1200	[-]				
	18 May 1130	- (60)	76.1 (60)	87.9 (62)	76.2 (59)	79.5 (54)

Melanerpes formicivorus

Blomturen HNHR

(25 September) time as ♀1170 (~0 May 1986) and is now still there.
See Stanback's notes.

Melanerpes formicivorus

CVGrande HNHR

19 January *Group Update*
j1077. NSAB.
j1080. " .

21 March 1600. Power struggle here, at least since this morning. Mark, Katy, and I put up a mist net, catching 2 ub 1st yr ♀♀ and ♀1119 from CV2. Things are relatively slow right now.

Note that much of the granary has fallen here within the last month, but there's still a fair amount left.

There are only ~10 birds here now, inc. 5 in the granary and several more up in the little open area where they've nested in the past.

5 April *Group Update*
♀941, ♀1078. Both moved to Hay-Blom on or about 1 March.
♀1187. Seen at the Power Struggle on the 21 March, but was gone by the 22nd. With 2 new ♀♀ now here, we give her DA. 22 March.
♀1042, ♀1040. Moved here from Sch Hill West on 23 March.
♂1079, ♂1081. Inherited 23 March. (also ♂943 if he's still here).

24 April (Now F-Troup)→ A night ambush at the '85 1st nest hole yielded ♂1079 - despite this being in the Rajneesh area (?!)

12 May *For nesting details see Mark's notes*

9 June *Group Update*
♂1079. Moved to "F-Troup". Last seen at CV6 on 30 March at "F-Troup" by 24 April (see above ambush) → Moved 12 Apr ± 2 wks

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Melanerpes formicivorus

CV Granite HNHR

30 August 1145. 2 birds in the granary here, inc ♂ M/Or or wn #837.
There are very few, if any, acorns left in the granary here.

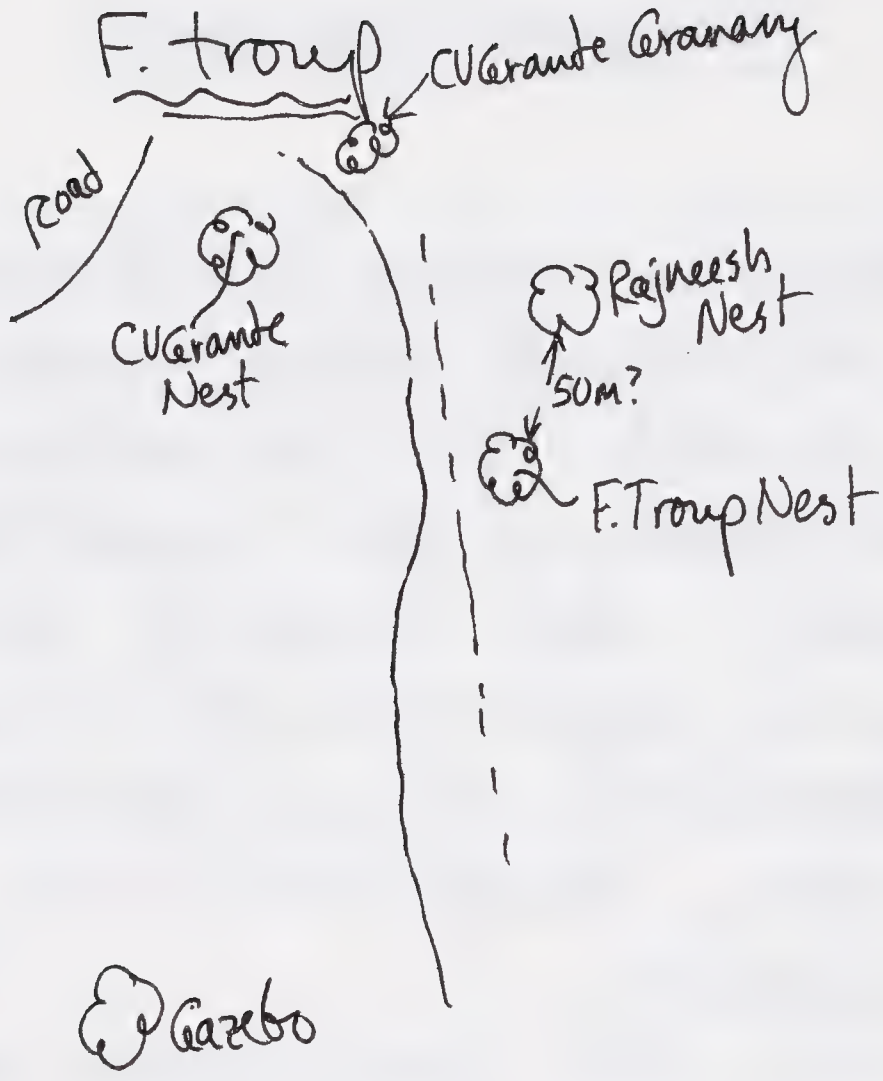
Melanerpes formicivorus

F-Troop HNHR

21 May A major fucking this evening when I ambushed at CVCerrande's old nest hole (hoping to catch Rajneesh birds) only to catch ♂1079 - on hatching eggs!!! [One egg had hatched - at least 2 unhatched eggs were there also]. Well. Piss me off. So I stuffed him back in and plugged up the hole to keep him in tonight (Stanback will unplug it before dawn). Wow. See map on back. We hope he will be ok tomorrow.

8 June *Cerrone Update* (it wasn't)

Birds here are ♂1079 (from CVCerrande) and ♀1204 (caught at CVPower Struggle). Both were certainly here by 19 April.


F. troup
CUGrande Granary
Road
CUGrande Nest
Rajneesh Nest
50m?
F. Troup Nest
Gazebo

Melanerpes formicivorus

Rajneesh
~~Grande Annex~~ HNHR

22 April This is one of the new groups over here in the Blom3-CVGr area, consisting of 2 ub ♂♂ and 1 ub ♀. They are up in the small open field where CVGrande used to hang out and in the nest area (1st nest last year). In any case, they have a nest (!) (see map on back) with 4 eggs in it (!).

~~Group Update~~

~~We will have heard~~ Although we don't know for sure, presumably these are the birds Katy saw up here all winter (called group "Rajneesh" by her). So we will call them "Rajneesh."

24 April Ambushed at the CVGrande '85 1st nest hole, expecting to get the birds here, but I got ♂1079 - a 1st yr CVGrande bird - instead!

25 April *Group Update*

Katy gives a probable original group composition of 4 birds (2♂♂ and 2♀♀) all unbanded, when 1st seen in December. They were originally up more toward Blm3

On th 21st of March, Mark saw only the 3 birds.

Obviously these guys are confusing, given than we are still catching CVGrande birds there.

12 May *See Mark's notes for details here*

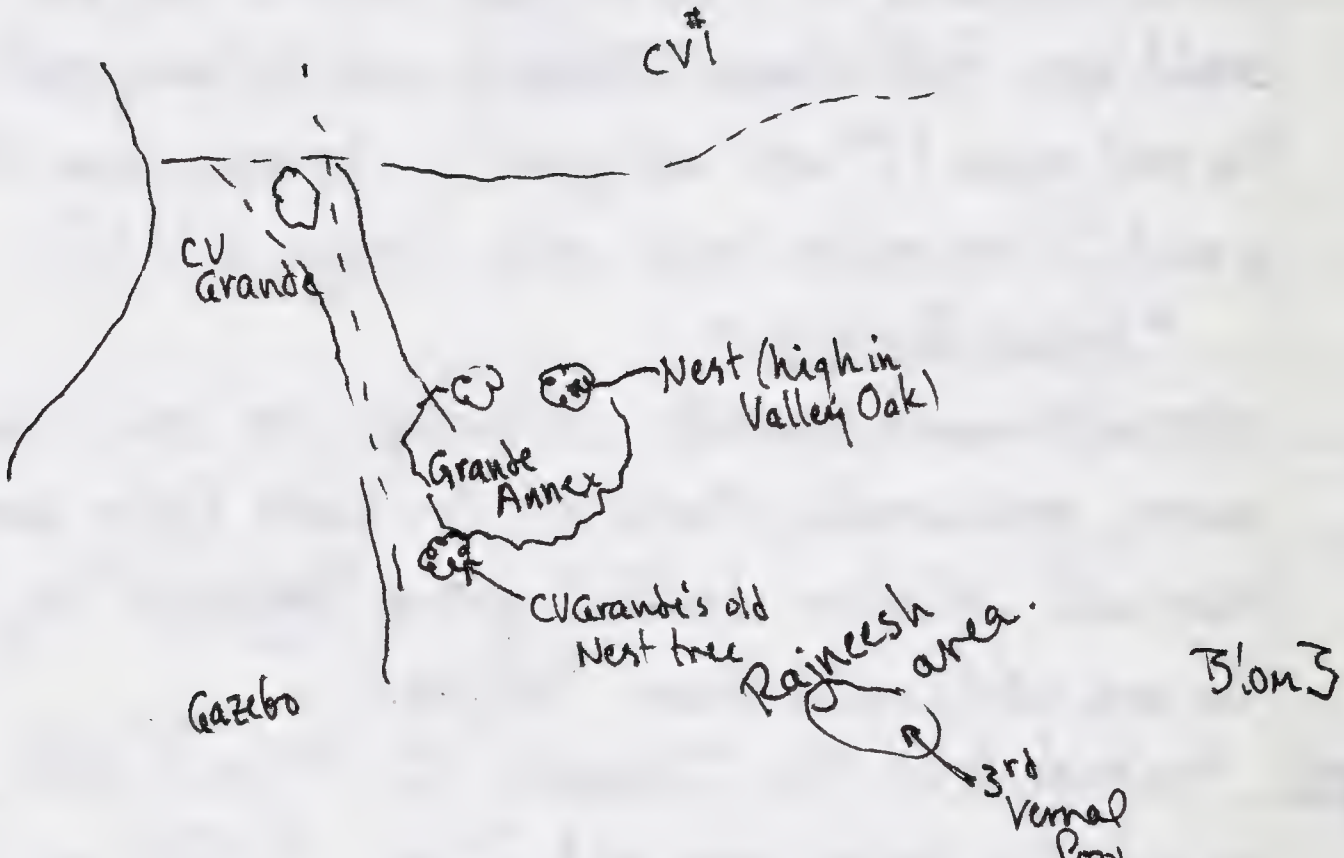
29 September *Group Update*

Last seen 14 August; all gone by 25 sept. →

Abandoned ~4 Sept ± 3 wks.

Note: 1255 & 1257 caught (apparently) by MTS on 25 June, not seen 14 August → DA 20 July ± 1 month.

Grande Annex



3'on3

Melanerpes formicivorus

CV#1 HNHR

19 January *Group Update*

This bird disappeared precipitously. → ♀960. Last seen 1 July (Missy); gone by 4 July ~~October~~ → DA. ~~Presumed Predation~~ 20 July. See Missy's nest watches.

♀1096. Last seen 4 July (~~Missy~~) (Stanback); gone by 21 Oct. → DA 5 Sept ± 1 month

j1132. NSAB.

j1133. NSAB.

5 April *Group Update*

2 new (possibly 3!?) unbanded ♀♀ here! (now #5241 & ~~#A~~.5242). ~~Joined~~ We don't really ~~(first seen 23 February)~~. know when these birds moved here. Katy saw a ub ♀ here as early as 11 December, possibly from CV#2. They were both here on 23 Feb for sure. We'll have them joining ♂ Jan. ± 1 month.

12 May *See Mark's notes for nesting details here*

8 June *Group Update*

Massive confusion here. These birds (♂966, ♂967, and ♀5241) ~~are~~ have been relegated to group "Murphy", which is just up the hill from CV1, now occupied by Blm 3 ♀♀ and a ♂ from Plague. They were moved up there certainly by 27 May; it could have happened earlier, but, as these things go, we don't really know. Mark has what information there is.

♀5242. Last seen 23 Feb, gone by 2 April ~~April~~ (Stanback) → DA 14 March ± 2 wks.

Melanerpes formicivorus

CU# 1 HNHR

(8 June) Here now are ♂1089 from Plaque, ♀1170 from Blonthree, and a 3rd bird (possibly ♀945) as yet not id'ed for sure. These birds moved here in April or May, at least by 27 May (so we will have these all move here 0 May ± 1 month).

25 September *Group Update*

♀1170 Now back at Blonthree (see Blonthree notes).

♀945. Stayed here after moving at the same time (prob. with) ♀1170.

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CV#2 HNHR

19 January *Group Update*

♀1105. Last seen 30 June, gone by 2 Oct. → DA 16 Aug ± 1 month.

j1118. NSAB.

j1120. NSAB.

j1121. NSAB.

j1122. NSAB.

15 April *♀1119 at the Blomone power struggle this morning*
See Blomone notes.

12 May *See Mark's notes for nesting details here*

8 June *Group Update* Big changes here.

8843. Last seen 8 March (Katy) gone by 16 May (Mark) → DA 12 Apr. ± 1 month.

8959. Last seen 18 Nov '85 (Katy), gone by 21 Feb '86 DA → NSA 31 Dec ± 1 month

♀1119. last seen at CV#2 on 8 March (Katy); seen or caught at power struggles on 12 March (OK Corral - was a minor power struggle?), 20 March (CV Verande) and 15 April (Blomone). Obviously left group ~10 March.

(#5249) ♂ub. Now here. First seen 16 May, presumably joined in April following the disappearance of 8843.

♀570. A big surprise. Disappeared from Cazebo March 1983, turns out to be here since October, at least. (First seen 4 Oct '85 by Katy).

30 August There are quite a few acorns remaining in the granary here.

Melanerpes formicivorus

Dark Hollow HNHR

19 January *Group Update*

♀696. last recorded sighting was in April; I presume she was here through the breeding season (young banded on 29 May). Was gone by 16 Oct

Philip saw on 29 June →

→ DA 8 Aug ± 2 months.

♀961. Last recorded sighting on 8 April (me); gone by 16 Oct. I need to check Philip's note to see if she was here through the breeding season.

Philip has no info. →

→ DA. ~~15 March ± 1 month~~ 2 July ± 3 months.

(~~Philip saw bird [Prob.] on 5 Feb, gone by 5 Apr.~~)

5 April *Group Update*

♂1061. Last seen 22 Oct., gone by 16 Jan., DA 4 Dec. ± 1 mon

j1066. " " " " " " " "

19 April 1630. New hole that Mark climbed: 1 egg, fresh.

23 April Mark climbed: a large gopher snake inside nest - all eggs eaten!

*Gopher snake predation on eggs!

Note that this hole is far up (40' at least) in a large Valley Oak. If a snake can get it, one could get virtually any nest anywhere.

8 June *Group Update*

♀695 ♀696. Moved to OK Corral, inexplicably. See OK Corral notes.

j1065. Last seen 16 Jan, gone by 24 Feb → DA 5 Feb

♀1035. Moved here, switching (inexplicably) with ♀♀695 and 696. See OK Corral notes.

This switch is very odd, to say the least.

Melanerpes formicivorus

Dark Hollow Nest Record — HNHR

19 April 1630 — 1 fresh egg

23 April (Mark) — Gopher snake in nest - no eggs.

* For further details see Mark's notes *

Melanerpes formicivorus

OKCorral HNHR

13 April Mark climbed and opened the nest here, where there are 7 eggs.

12 May *See Mark's notes for ~~f~~ nesting details*

8 June *Group Update*

~~888~~ 8853, 8883. Not seen since 1984, this group hasn't been watched much, but apparently not here as of 1986, so → DA 850400 ± 1 year.

♀5200. Here 21 March (Mark), gone by 10 April → DA 30 March ± 1 week

j1036. Last seen 20 May '85, gone now; basically gone between 20 May '85 and Apr. '86. → ~~DA~~ NSAB.

j1158. Also NSAB.

~~♀696, Here seen here 16 October '85 (Mark), last not at Dark Hollow.~~ Come from Dark Hollow ~~by~~ by ~~Jan.~~ → Moved ~~by~~ 6 Dec ± 1 month.

~~♀695.~~

♀695. Seen 16 Oct at Dk Hollow (Katy), seen at OKCorral on 21 March (Mark) → Moved 31 Dec ± 2 mon.

♀696. Last seen at Dk Hollow April '85 (Missy), seen at OKCorral 26 Oct '85 → Moved 0 July '85 ± 3 months

♀1035. Seen at both OKCo and Dk Hollow in February (Katy). Seems to have switched with ♀♀695, 696. Now a breeder at Dark Hollow. Don't know when she moved, but we'll say 0 Feb ± 1 month. Obviously could have been much earlier, but, as a baby, probably not. Definitely here by April.

Walter D. Koenig

Melanerpes formicivorus

Gate HNHR

10 February 1530. Counted stores: 640 (at Westgate)
0 (at Gate)
640 Total.

There are essentially no stores in the Gate tree.

25 April Saw a bird in last year's nesthole yesterday, but I just climbed up and it's currently empty.

Group Update

♀1108. Last seen (Katy) 31 Nov, gone by 2 Feb'86-5DA
1 Jan. ± 1 month.

4 May 1445. Birds were in the hole (last year's nesthole) several times over the past several days, but I just climbed up and it's still empty!

12 May 1530. Finally: 4 eggs in the hole.

14 May 1500. Still 4 eggs.

29 May 1845. 4 babies ~13-14 do.

~~1985~~ 1986 Walter D Koenig

2

Est FED = 3 May
CS = 4 eggs
Hatched: 4

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Gate Nest Record

HNHR

12 May 1530 — 4 eggs.

14 May 1500 — Still 4 eggs

29 May 1845 — 4 babies, eyes open, 13 or 14 days old.

8 June 1800 — 4 babies, banded #1312-1315

	①1312	②1313	③1314	④1315
8 June 1800	79 (76)	77.8 (73)	79 (75)	77.8 (75)
	white/Dpink - blk	Grn-wht (N) /M	Lblue/Dblue - Bpink(W)	
	M/Lgreen	white/Lgreen-brown	Dblue/M	

reverse

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Westgate HNHR

20 January *Group Update*

The 2 unbanded birds abandoned shortly after their nest failed. ~~about~~ Hence, they abandoned between 1 June (when they had eggs) and 19 June. → Abandoned (NSA) 10 June ± 1 week. It is currently empty, although the Gate birds are using it regularly.

10 February 1530. Counted stores: 640, which I assume belong to the Gate birds. The capcity here could be about 900.

Melanerpes formicivorus

Pipeline HNHR

20 January *Group Update*

Katy saw birds here right after she arrived on 23 Sept.; so we'll have this group founded (by 6 ub birds!) on 0 Sept. 1985.

10 February 1545. Counted stores: ~~200~~ 625. I'd set capacity at about ~~800~~ 900. here. They to have some of their own holes, but not a lot.

Note that these birds are apparently using the holes and stores at Horsetail as well, of which there are currently about 150.

12 May *For nesting details see Mark's notes*

9 June *Group Update*

♂1181. Last seen ~~October~~ 19 November when he was caught at Pipeline, gone by 23 November → DA 21 Nov.

♀1184. Same as ♂1181, except she was caught at Horsetail. → DA 21 Nov.

Both these probably "returned" "home"? Maybe not breeders to begin with

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Wolfpack HNHR

20 January *Group Update*

Katy saw these birds on 4 Oct upon first going out to the road, so we'll have them founding the group on 0 Sept. 1985. All were banded on 26 Oct. 1985.

10 February 1600. Counted stores: Big VO on Warm side: 90
Big VO on Creek side: 110
Other 30
} 230.

I found no big cache here nor any evidence they have the capacity for more than ~300 acorns, except for putting a lot in the bark of the big Valley Oaks which they could do but haven't. I don't really see how they can manage on what they've got, but they have so far so we'll just have to see.

14 April 1100. Opened the hole high in the sycamore where we caught 1 bird last fall (Katy had seen birds in here several times). Nothing yet, but it does look in reasonable shape.

24 ~~25~~ April Mark checked nest: 5 eggs, fresh.

28 April 1600. Still 5 eggs.

9 June *Group Update*

♀1178. Last seen when banded on 26 Oct, gone immediately thereafter → DA 27 Oct.

15 September *Group Update*

♀1177 moved to Finch 14 July.

♀1176 Here on 11 Aug, at Finch 6 Sept, → Moved ~24 Aug

16 November ♀1175 seen intruding at Bianca today!

Est FED = 20 Apr.
CS = 5

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Wolfpack Nest Record

HN HR

24 April (Mark) 5 fresh eggs
28 April 1600 5 eggs
16 May 1530 3 babies

	①|276	②|277	③|278
16 May 1530	77.9 (41)	not weighed	not weighed
24 May 1430	85.5 (85)	92.0 (83)	89.5 (74)

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Warp 5 HN+IR

15 April *7998 at a power struggle at Blomone this morning', see Blomone notes.

16 May 900. Noone up here or in any holes. Also, they appear to be plum out of stores! Maybe that's why we can't find a nest here.

24 May Looked here and sat around for a ½ hr or so. Not much activity, but there was some. An ub ♂ came and picked around in the main trees for several minutes, eventually getting chased off by a banded ♂. The latter stayed for a couple of minutes and then flew down toward the road.

This does make me wonder about the relationship between Warp 5 and the new Road groups. We don't know of any (all the road birds were unbanded originally) but who is hanging out up here? I certainly have little sense of there being a nest here.

9 June *Group Update*

j1151, 1152 - NSAB. also j999 → Last seen 10 July, gone by 11 March → DA 10 Nov ± 4 months.

18 September Watched up here this evening, seeing no sign of birds or stores. I don't even think there's a group here. (Was there one this spring? Could have fooled me.)

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Road 1 HNHR

20 January *Group Update*

No- here after all-

♀996. Last seen on 22 June feeding young; gone by 15 Oct → DA 18 August ± 1 month

21 February 1600. Counted stores: Valley Oak: 966 } 2328
Sycamore: 1362 }

I had a hard time counting the sycamore; it was quite full, however. In sum I'd give the group 3000 holes – there are lots in the Valley Oak (mostly old) that aren't being used, and some over by the creek.

5 April *Group Update*

♂994. Last seen 28 Oct, gone by 15 Nov. → DA 6 Nov ± 1 wk.
♀1124. " " 15 " " " 28 Oct → DA 21 Oct ± 1 wk

25 April 1315. 3 young babies and 1 unhatched (but developed) egg here in the sycamore over by the creek.

15 May Banded the 3 babies as ♯1246-1248.

9 June *Group Update*

♀269. Last seen 20 Feb (Katy), gone by 1 Apr. → D.A. 10 March ± 2 wks.

12 June 1215. Bird (adult) in 1st nest hole.

1915. 3 babies (~3 do) + 1 undeveloped egg in 2nd nest.

6 July *Group Update*

♂994. Is still here. Seen by Katy today.

Est. FED = 9 April
(CS = 4)
Fledged: 3

Melanerpes formicivorus

Road 1 Nest Record

HNHR

25 April 1300

3 babies and 1 egg (developed): 24.3 × 20.8

		1246 ① Ycl-Or	1247 ② DB	③ 1248
25 April	1300	15.2	14.2	10.0
15 May	1200	84.2 (88)	89.6 (80)	77.0 (73)

Est FED 27 May
CS = 4

* 2nd nest *

12 June 1915

3 babies + 1 undeveloped egg. Largest baby weighs 18.2g → ~~3~~ do.

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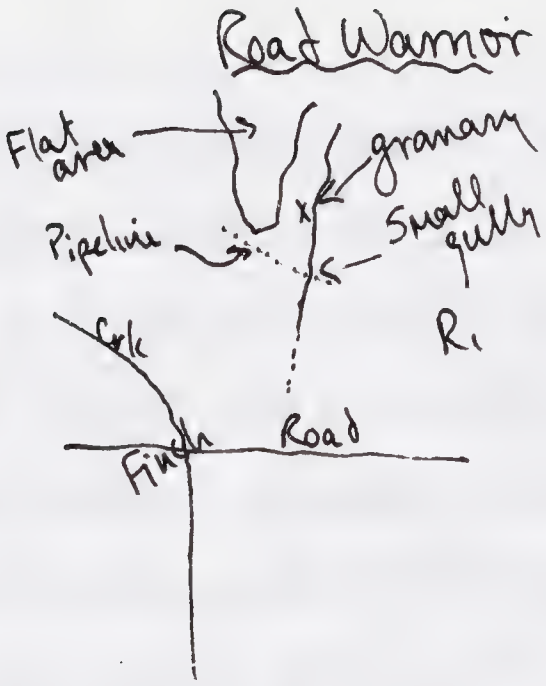
Road Warrior HNHR

24 April I discovered this group today while wandering around looking for Road 1's nest. It is in a small gully and the surrounding flat area up above the bend in Finch Creek near group Finch. The pipeline runs right by it, but it's quite likely I've never been up here before. Nonetheless, the granary has perhaps 800 holes, currently filled with 200± acorns. There are lots of big Valley Oaks in the vicinity as well. And I did see several birds. Thus, being kind of in the middle of the study area, this territory begs some attention. I obviously know nothing of its prior history, although it's less than 100m from both R1 and Finch.


Road Warrior
Flat area
granary
Pipeline
Small gully
R1
Fork
Road
Fork

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Finch HNHR

21 February 1600. Counted stores: Main Tree: 307
Sycamore +: 283 } 590.

Lots of empty space. It would seem likely that I've long missed the peak at this territory; 600 acorns is not a very many for this group.

22 March *Group Update*

♀1138. Last seen 30 Sept (Katy); gone 15 Oct →
DA 7 Oct ± 1 week.

4 April 645. Ambushed the 1985 nesthole, catching ♂63 and ♀986. We therefore removed ♂63 and put him in the aviary, as the 1st of the ♂ removal experiments for the year.

(♂ Removal)

Katy watched immediately afterwards to check and make sure everything was OK.

Group Update

♂542. Last seen 15 Oct., ~~no~~ gone by 22 Jan., → D.A. 3 Dec. ± 1 mon.
♂1139. Last seen " , gone by " → " 3 Dec. ± 1 mon.

16 April Saw birds in a new hole in the sycamore this afternoon, so I came out and opened it: nothing yet, but it was in good shape.

9 May 1700. 3 eggs, fresh! We're on our way! (In same hole as last year).

15 May 1645. ♂63 released and the hole checked: 3 eggs. Now watching until dusk.

1703. ♀986 in tree. 1720. ♂63 in tree. Noone's returned to the hole yet, though.

1725. Some serious fighting, including grappling and falling to the ground, between ♂63 getting attacked

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{FED: 7 May
{CS: 3

2nd trm
FED:
CS=4

Finch Nest Record

	HNHR
9 May 1600	3 eggs, fresh, marked 1-3
11 May 1530	still 3 eggs
15 May 1650	Still 3 eggs
18 May 1445	Nest empty. He tossed!
4 June 1800 (Mark)	4 eggs

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Finch HNHR

(15 May) by a ♂ - presumably ♂613 but I haven't gotten a good look at him yet - with ♀986 joining in some. The ♂ & ♀ are pretty chummy and obviously not happy with ♂63's return.

1800. Still noone has come to the hole...?! Ah! Here he is...

1801. ♂613 enters hole. 1823. ♂ Left.

1823. ♀ enters (♀986, I presume).

1900. ♀ still in hole. 1917. ♀ Leaves.

1918. ♂ enters. - 1925. 2nd ♂ at hole. 1927. ♂ Leaves, returns.

1930. 1 ♂ spends night in nest. I go home.

16 May 1200. Took over from Sue. Nothing interesting yet. Compilation of the watch is on the back.

1500. Nothing at all interesting. I'm quitting and going to watch the trees looking for ♂63 until Mark comes at 1530.

As an aside, These birds do have stores remaining, at least in the sycamore.

1520. ♂63 is here - up in the VO granary.

18 May 1445. The nest is empty! He tossed!!

4 June 4 eggs in the new nest (Mark).

12 June Sue reports that eggs have hatched, so final clutch size was 4.

12 July Jim brought in ♀986 - road killed! Ugh!

15 September See Katy & Mark's notes re the replacement here.

Currently we have

♀1177 from Wolfpack, here since 14 July, and

♀1176 " " , seen here 1st on 6 Sept, was ~~back~~ still at Wolfpack on 11 Aug → Moved ~ 24 Aug ± 2 wks.

16 May Incubation watch.

♂613
- 1200:00 start. Hole now empty, I think.
- 12:00. No- ♂[613] in hole. Probably was been in the whole time.
- 17:45. ♂ Leaves. ♀[986] enters

♀986
- 27:45 ♀LO
- 29:30 BD
- 36:00 LO
- 36:45 BD
- 40:45 LO
- 42:45 BD
- 45:00 LO
- 46:30 Leaves

It is ♀986

♂613
- 47:40 ♂613 enters
- 19:06.00 LO
- 09:15. BD
- 11.00 L

♀986
- 22:15. ♀986 E
- 41.00 LO
- 41.10 Leaves

♂613
- 57:00. ♂613 E
- 58:00 Left - went to another hole

♂613
- 58:30 Returned (♂613)
- 14:09:45 LO
- 12:00 BD
- 17:45 LO
- 21:00 BD
- 25.15 L

♀986
- 25:20 ♀986 E
- 29:50 LO
- 30:35 BD
- 33:05 LO
- 35:50 BD
- 41:35 LO
- 43:20 BD
- 44:55 LO
- 45:50 BD
- 51:55 LO
- 53:55 BD

15:00:00 still in. I'm leaving

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MacFlat HN HR

20 January *Group Update*

0985. Last seen 21 Feb., presumably by Philip. She was gone by 14 May (she was not around for breeding) so → D.A. 30 March ± 1 month.

21 February 1600. Counted stores: 597. About the same as Finch! However, their capacity is not really over 750. But they do seem to be doing fine!

9 May 1615. 4 eggs in last year's hole.

~~9 June~~

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Est FED:
CS: 4 eggs

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MacFlat Nest Record — HNHR

9 May 1615 — 4 eggs, not fresh?

11 May 1530 — Still 4 eggs

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Road 3 HNHR

20 January *Group Update*

♀1010. ~~Rustin~~ Mark saw her on 25 May at the start of the 2nd nest here, so she was presumably here through it's completion on ~ 10 July. She was gone by 16 October (Katy) → DA. 28 August ± 1 month.

By 16 Oct. she had been replaced by an unbanded ♀ that we caught on 18 October (we'll say she replaced her ~~in ? late on Nest~~ on 29 Aug.

21 February 1615. Counted stores: Sycamore: 352
Valley Oak: 118 } 470

Pretty low. The sycamore especially is nowhere close to being filled. It would seem I'd missed the peak here.

22 March *Group Update*

j1125. NSAB.

j1126. NSAB.

♀1173. Last seen 5 Nov, gone by 21 Jan → ~~DA~~ 13 Dec. '85

Add: ♀ub, new on 14 Dec. '85.

10 May 800. Opened the hole in the sycamore (hole above the road): 4 eggs, incubated.

14 September *Group Update*

ub ♂ new here, apparently joining ♂1011 (a sib?). First seen 31 July, not here as late as 13 July → Moved here 22 July ± 1 week. (this is ♂5252).

17 September 600. Ambushed here this morning nabbing 5 birds - everyone except the new ub ♂. C'est la vie.

Est FED = 1 May
CS = 4

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Road 3 Nest Record

HNHR

10 May 800 — 4 eggs, incubated

21 May 830 — 3 babies, 6-8 do

6 June 1300 — 3 babies, banded

	1296	1297	1298
	① Blk/Lgreen 4el/Lgreen	② orge/white white/Lblue	③ ~~red-white(N)/mau~~ red-white(N)/mau red-white(N)/mau
6 June 1300	85.8 (86)	82.4 (87)	80.6 (90)

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School Hill HNHR

23 January *Group Update*

886. Gone(!) A sad day. Last seen on 9 June, gone by 27 September. DA → 31 July ± 1 month.

9978. Last seen on 20 April 1985 by Missy, she seems to have disappeared shortly thereafter, by 4 May or so. So, DA→27 April ± 1 week.

j1088. NSAB. +100 in 2° tree = 2342

9 February 1600. Counted stores: 2242. The granary is pretty full; I'd put ~~there~~ their capacity up at about ~~2000~~. 2750.

By ~~The~~ the way, the birds here have a new hole just above the "traditional" hole in the Valley Oak. (The '75 nest hole.)

26 April 920. Watching.

930. ♀ DBI #260 and ② ♂ Ret/M #977. ♀ flew way off up hill over to the census plot...?

1040. These 2 are the only birds hanging around. Where are the others? No good clues, so it's time to check around.

14 May 800. Looked around here: still no sign of a nest.

7 June *Group Update*

9872! This bird, listed as not having been seen after banding in May 1983(!) is now all of a sudden a breeder at Chongo! Change her to "Abandoned (SA)" 16 Aug 1983 along with the rest of the group.

♂1087. Equally bizarre. Apparently now at Blomore, having joined ~~several~~ 3492, to which he is only distantly related. Last seen here 2 Feb, gone by 7 Apr. → Left group 4 March; now at Blomom as of ~ 1 May.

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School Hill HNHR

9 June *Group Update*

♂402, 1161, Last seen 2 Feb, gone by 7 April. → DA 3 March ± 1 month. This apparently leaves only ♀260 and 1 helper ♂ (977) here; with no breeding ♂ they do not have a nest this year.

14 December 1300. Counted stores: Main tree: 1467
2° tree 78
} 1545

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School Hill West HNHR

9 February 1620. Counted stores: 230. The granary does have more space, but I still wouldn't peg their capacity at over 500. They could have a stash somewhere else, but I doubt it.

No sign of anyone while I was here, as usual.

5 April *Group Update*

♀1040, 1042. Moved to CU Grande ~23 March 1986.

13 April 1230. Went by here, seeing noone in any holes, no birds, and *no stored acorns* What's up here, I wonder?

8 May Watched roosting here tonight, having scant evidence that there are even any birds still living here. I did flush a bird from the granary a ways back, but Things are awfully quiet here.

14 May 815. Saw nothing up here looking around.

14 December 1300. Counted stores: 597. (Mostly Black Oaks). There's obviously a group here now!

Walter D Koenig

Melanerpes formicivorus

Arf, too & ARF

HNHR

8 May 1220. Flushed a bird out of a hole at ARF, TOO containing young babies in the Blue Oak in ARF proper, next to box #259.

9 May 800. Found ARF's nest, in The Valley Oak right by the road on the way up to the 1st sharp turn. They have 5 eggs, incubated (clutch is certainly complete).

900. Opened ARF, TOO's nest: they have 4 very young (~day 2) babies plus egg-shells (implication is a FED of 24 April and clutch size of 4).

28 May 1300. Banded the 3 babies at ARF, Too as #1281-1283

① 1281	② 1282	③ 1283
84.3 (70)	79.9 (57)	92.5 (75)

2 June Banded the 3 babies at ARF this afternoon. (#1289-1291).

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Black Oak HNHR

14 January 800. A momentous morning. The ambush in the central Valley Oak nest hole netted noone, but over in the Poison Oak tree we got 4 birds including ♂426, ♂744, and both ub ♀♀, now #1189 & 1190. Whoopee - do! This group is now (presumably) entirely banded for the 1st time in many years.

23 January *Group Update*

♂102. Last seen 21 May 1984 by Ron. Apparently gone by

♂321. Last seen 7 April 1985, gone by 9 June → ~~DA~~. → 8 May ± 1 month.

j1008. NSAB.

j1156, j1157, j1158. All 3 babies from the 2nd nest NSAB (note the messed up numbers here).

♀1025. Last seen 9 June 1985 by Stanback, gone by 25 October → DA 17 August ± 2 months

22 February 1410. Counted stores: Central area: 2090 } 2821.
Side area: 731 }

They are pretty full here. I'd put capacity at 3200.

5 April *Group Update*

♂102. Last seen 21 May 1984 (by Ron). Following this we are almost entirely lost, but it would seem as though he probably disappeared in the summer or fall of 1984, so we'll put DA @ 1 Sept ± 3 months.

11 April 1115. Mark censused and then opened the nest here (in the central area) where they have 6 eggs.

17 April 1645. Didn't see anyone in the hole in passing.

22 April Mark climbed: 5 big(!) babies

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Est FED: 2 Apr; 28 May
CS: 6, 6
Fledged: 6,

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Black Oak Nest Record — HNHR

	11 April 1115	6 eggs
	22 April (Mark)	6 big babies (~7 days??)
	2 May (Mark)	6 babies banded.
(2nd nest)	2 June 1400	6 freshish eggs
	20 June 1500	5 babies, ~10 d.o. (1 runt)

Melanerpes formicivorus

Black Oak HNHR

2 May Mark banded 6 babies here: #1209-1214,

28 May 1145. Bird in the "2nd nest hole" here: could be the 2nd nest.

2 June 1500. Opened the 2nd nest: 6 freshish eggs.

9 June *Group Update*

♂689. Last seen, rather oddly, by Doug Mason, who had been visiting and did a watch, on 14 December, gone by 27 December → DA 21 Dec. ± 1 wk. It seems possible that this bird just visited for the day - it had last been seen in April '85.

♂1005. Last seen 3 December (Kaby), gone by 9 Dec. → DA 6 December.

16 June 1550. Flushed a bird out of the hole: babies, sound not very young.

10 November 950. Watching from blind.

955. ① ♂ Blk/Or #426 in forest by Bianca.

1005. ② ♂ Red-Wh/W-R #1006 (probably). In side area. Yes

1008. ③ ♀ LP-Blk/Blk #1004. In Bianca side. ④ ♀ Mv/M [1007?].

⑤ ♂ M/Red [1214?] ⑥ ♂ DB-Or/DB ?? Seen pretty well. Here he is: ⑥ ♂ DG/Or-DB # 1213. Beat up on a ♀.

1025. ⑦ ♀ Blk-Wh(n)/M / DB/Wh-LB #1212. Sapsucking! Several birds sapsucking now, inc. ♂426 and ④ ♀ DB/LB #1007.

1045. ⑧ ♀ LP/Red-Wh(n) #1190. In side area. ⑨ ♂ Mv/Yel #1009 sapsucking.

1110. ⑩ ♀ Red-Blk/M #~~1209~~ ?? sapsucking ⑪ ♀ Dk-Red(n)/M (???) / Red #1344. (Looks like "Blk-LP"(!?))

1130. ⑩ ♂ Le-Blk/Yel #1209!! Oops! It's a ♂. For sure.

1145. ⑪ ♂ LP/Red LP #744 ⑫ ♂ M/Wh #1343 sapsucking.

1200. Saw ♀ R-Blk/M again. Who is she?

Melanerpes formicivorus

Black Oak HNHR

(10 November) 1203 ⑫ ♀? M / Red-Mauve #1214 (a ♂ based on observation at 1008.)

1223. I bet "♀ Red-Blk/M", who I've seen several times (but no left leg yet) is #1346 (with the fieldlist wrong).

1226 ⑬ ♀ Blk-Wh(w)/Blk M / #1211 sapsucking. Some confusion, but I think it's her. Yes.

1245. ⑭ Yes: ♀ Red-Blk/M Mauve/Dk-Red(w) (very hard to see) #1346 is here with the split LR band colors reversed.

15 birds so far. Not bad! These birds do, by the way, have lots of acorns stored, even though they're sapsucking a lot. I wouldn't swear I got everybody, but I must have gotten pretty close.

Melanerpes formicivorus

SOBO HNHR

22 February 1445. Counted stores: Main tree: 968 } 1013.
Other: 45 }
Not bad. I'd put capacity at 1200.

11 April 1020. At least 2 birds were around last year's nest hole, so I went up and opened it, finding some moss and the makings of a mouse nest (but no mouse). I cleared it out, and with luck maybe they'll still use it.

17 April 1700. Looks like I'm in luck - there's a bird in the hole now. These birds also have stores remaining.

22 April ♂1039 intruding at LA2. See LA2 notes.
1330. Noone in the hole (last year's nest): it's empty (but is in good shape now).

7 May 1415. Watching for a nest. ① ♂ M/Red #736 here.
1450. Now 2 ♂♂, second ♂ Red·/M #1039.
1545. Found the hole - it's in the same tree as last year, but in a hole above the opened one! They have babies ≥ 14 days old; should be opened soon.

8 May 1100. 4 babies in the nest, ~14-15 days old.

15 May 1300. When I was up here before an ominous crack opened up in the limb, which I nailed up, but, as it turns out, futilely. The entire limb fell, taking the babies and both nest holes with it. A double tragedy!

16 June 1600. Watching.
1630 ① ♂ Or -?/M #1037. ② ♂ -BP/Red #1039. ③ ♂ M/B-W(n) #736
1645. ♀ here also, but haven't seen her legs yet.
1655. Going to look for a nest.

16 September 845. Watching. Lots of new acorns here now.

Melanerpes formicivorus

SOBO HNHR

(16 September) 850. ①♂ M/DB-WN(N) #736. ②♂ LP - 1 Or Red-LP/M #1039, in granary.

900. ③ ub baby. Rats. They did manage to pull off a nest after all. This one's eyes are still dark and is certainly pretty young.

930. Raining pretty hard. leaving.

16 November 950. Watching. The birds have a lot of acorns stored.

1010. ①♂ LP - 1 Red-WN/M #1039. along with ②ub ♂ (baby).

③♂ M/DB-WN(N) #~~[illegible]~~736.

? 1020. ④♂ LP* [illegible]/M Yel/DB 639 * Mauve? Both "LP" and "Yel" bands quite faded. This bird in working stores. Who is he? (j ♂ ub here, too.) Bird seen well. It's 0639

1030. ⑤♀ ub

1115. leaving. This seems to be it!

Group Update

0639. Still here. Actually, this bird is listed as having disappeared in 1984. So for now, I'll add a "returned" record ~16 Oct 1986. Wow.

Also add 1 ub ♂ nestling from a missed nest here. Obviously we don't know how many fledged, but he appears to be the only one surviving this long.

Melamerpes formicivorus

Arnold I HNHR

11 January 1145. Flycatching in the granary is a ♂ M/Dareen - who is this? (This leg was seen well - I did not mix up the bands).

1155. ♀? MV-WN/WN-MV #568.

1205. Up at the "Top field" is ♂? (?) Red-LB/M #1019.

1330. Counted stores: 3408. Granary is not especially full; I'd give them a capacity of 4000.

22 March *Group update*

♂679, ♂1019, 1020, 1021 all moved to Lambert on 28 Feb. 1986.

♂1018. Last seen 8 Nov., gone by 14 Dec. → DA ♀ 24 Nov ± 2 wks.

11 April 1130. Noone in any holes here.

7 May 1700. 4 eggs (I think), rather fresh, in the same old nest hole (deep in the hole, I might add.)

21 May 1000. 4 babies, ~ 3 do.

10 June 830. Banded the 3 babies here as #1319-1321.

Est FED: 4 May
CS = 4 eggs

Melanerpes formicivorus

Arnold 1 Nest Record HNHR

7 May 1700	4 eggs, freshish
21 May 1000	4 babies, ~4 do
10 June 830	3 babies, banded

	① 1319	② 1320	③ 1321
10 June 830	85.4 (88)	80.0 (87)	83.1 (85)
		Mauve-BPk/902-43009 Mauve/BPk-Mauve	Orange/Red DG-BP(w)/902-43010

Melanerpes formicivorus

Keep Out HNHR

11 January 1300. Counted stores: 870. Granary pretty full; I'd say 1000 holes total.

There are several miscellaneous birds around in the "top" area, including an ub & who flew down to this vicinity.

11 April 915. Noone in any holes here.

22 April Nest in the same tree as last year.

23 April They have 4 ~5-day old nestlings here (!)

21 May Plenty of stores left here in the granary.

9 June ** *Group Update* ♀739 is apparently gone, but with noone to replace her will wait to knock her off. (Katy saw her here 10 June.)

Melanerpes formicivorus

Key Cut Nest Record HNHR

23 April (Mark) 4 ~5 day-old nestlings

banded 5 babies (deep hole)

2nd nest

8 June 1130 3 ~ 2-3 day-old nestlings

Melanerpes formicivorus

Arnold Schwartzeneger HNHR

18 May A new group christened here, consisting of the old Lambert birds displaced to the area between Keep Out and Lambert last winter by the invading A1 ♂♂ and UA2 ♀♀. They have a nest in the same hole as last year (the large Valley Oak along the path to Keep Out) with 2 ~14 do babies in it. See Lambert notes for more details.

28 May 950. Banded the 2 babies.

① 1279	② 1280
80.2 (95)	82.2 (86)

This group does not have any stores, or even a granary as far as I can tell.

9 June *Group Update*

This group consists of ♂624, formerly of Lambert, and ♀720. (This is not certain, but seems probable.) These birds were apparently evicted or left voluntarily from Lambert, ♂624 in November, ♀720 in the March power struggle.

Melanerpes formicivorus

Lambert HNHR

11 January 1240. Counted stores: LFT: 809
Nest tree: 752
HFT: 1714
H.VO 881
} 3456.

The only area not very full is the Lambert fallen tree, which could probably hold another 1500 acorns, so I'd guess their capacity to be up around 5000. (Note that they are storing a lot in the Hastings Valley Oak, esp. in the bark.)

No birds seen up here.

23 January *Group Update*

3546. Last seen 4 March 1985 (Philip?), gone by the nestwatches beginning 16 May → DA 10 April ± 1 month

2775. last seen on 19 May feeding, gone by 28 Oct → DA 7 Aug ± 2 months.

♂777. last seen on ~~19 May feeding~~ 24 June by Missy, gone by 28 Oct → DA ~~28~~ Aug ± ~~2~~ 1 months.

j1029 ~~my1058, WAA~~. Last seen 24 June (by Missy) gone by 28 Oct → ~~DA~~ ~~28~~ 26 Aug ± 1 month

j1031. last seen 24 June (by Missy), gone by 28 Oct → DA 26 Aug ± 1 month.

j1032. Same as j1031.

j1147. NSAB.

j1148. NSAB.

Some serious attrition in this group this year.

5 March 1215. Up here following a power struggle last week. Saw ? → ① ♂ Wh-LB/Blk-Wh/M or #1029? This bird may still live (?) All pretty quiet. ① ↑♂ Wh-Mv/Or ?? ② ♂ Cam-Blk/M #679 from A1. Things are

Melanerpes formicivorus

Lambert HNHR

(5 March) actually still pretty active here.
♂ Red-LB/M #1019 here from ~~Oak~~ A1 for sure.
Also lots of Starlings. Bring the gun next time.
♂ Blk-LB/Blk #679 (from A1).

22 March *Group Update*
♂624. ~~Disappeared (presumably just before the 28 Feb power struggle~~ → Last seen 30 Oct, gone by 19 Dec, → DA 25 Nov ± 1 Month (see Katy's notes).
♂679, 1019, 1020, 1021 → all joined in 28 Feb power struggle
♀1030. Last seen 30 Oct., gone by 19 Dec, → DA. 25 Nov ± 1 M.
♂1033. " " 31 Oct., " " , → D.A. "

5 April More changes. The breeding (♀720) is gone (having been kicked out in the power struggle!) and has been replaced:
* ♀720. Last seen 28 Feb (in power struggle) gone by 6 March → DA 3 March.
Evicted ♀720 in ♂ power struggle! ♀916. Moved here (from UA2) replacing ♀720 ~~on~~ by 3 March. Did this with ♀1028.
♀1028. Same.
11 April 900. Noone in any holes here; Katy staying to watch.
7 May Mark found the nest: 3 ~3 do nestlings. [This is A. Schw. nest]
18 May 1500. 2 babies in the nest, looking fine.
! Well. The mystery is solved. There are 2 groups here now. Former Lambert was relegated to an inferior part of their own territory (no granary facilities, as far as we know) and is the group with the nest mentioned above. Meanwhile, there is a 2nd nest in the Lambert Valley Oak

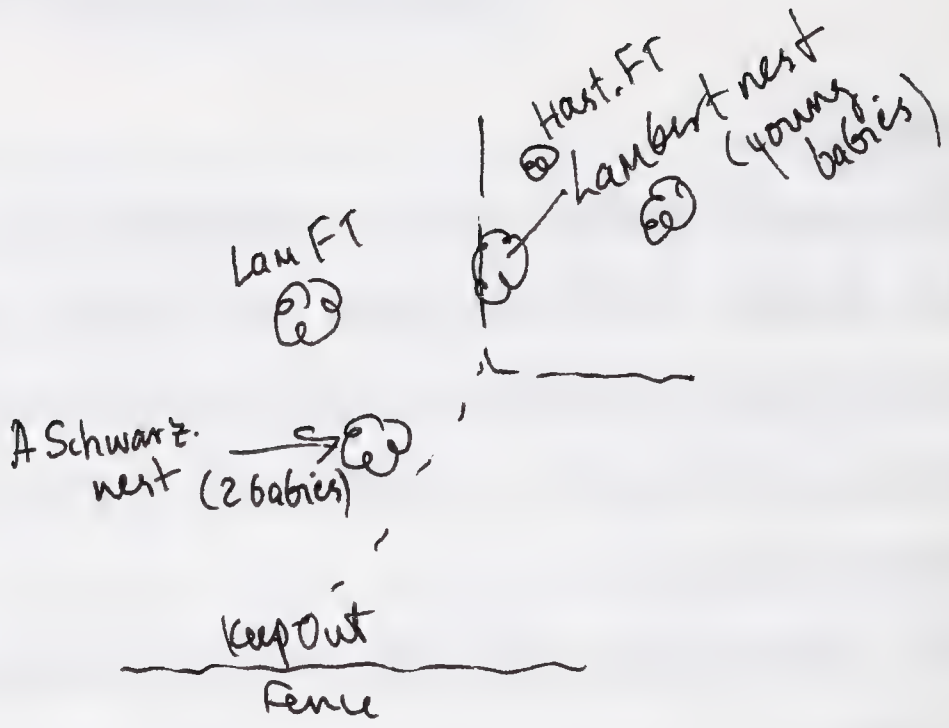
Melanerpes formicivorus

Lambert HINHR

(18 May) with small babies in it - presumably the A1 males and UA2 females that took over the territory last winter. So! A new group! Which we will christen Arnold Schwarzeneger (which is basically a budded off part of Lambert - see map on back).

21 May 930. Opened the real Lambert nest, where there are 3 babies ~ 5 do.

8 June 1100. Banded the 3 babies.


Hast. FT
Lambert nest
(young babies)
Lam FT
A Schwartz.
nest (2 babies)
Keep Out
Fence

Est FED = 3 May
CS = ? Fledged: 3

Melanerpes formicivorus

Lambert Nest Record

HNHR

18 May — Found nest (before this it was mixed with Arn. Schwartz.)

21 May 930 — 3 babies. ~5 do (not marked)

~

	①	②	③
21 May 930	29.1	29.2	31.0
8 June 1100	86.4 (94)	84.7 (91)	85.6 (96)

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Melanerpes formicivorus

Fanny Arnold HNHR

11 January 1300. Counted stores: 943, scattered among 5 trees here. I'd give their total capacity at 1100, and probably growing.

23 January *Group Update*

♂797. Last seen 19 Feb 1985 (Philip?), gone by 3 May → DA → 26 March ± 1 Month.

22 February 1250. ①♂ M/Or-Wh/Wh Or/ #835 seen in trees between Fanny Arnold & Arnold 1. At least 1 other bird here also. They're here eating Valley Oak catkins, which are well out already!

Also here: ②♂ Blk/M LB/Wh: #1023; ③♀ Or/Blk-Wh #834; I think at least a 4th bird.

The baby (♂1023) managed to pull out a Valley Oak acorn that was somehow still on one of the trees. Mostly they are here for the catkins, however. This tree is definitely the farthest along up here, and even here there are only a few oaks flowering.

5 March 1345. Several birds in the "open" area above here again! One is ♂ Wh-Or/Or ??

1348. ③♂ Blk/M #1023. In same trees as on 22 Feb. ③♀ Wh-DB/M #834.

17 April 1730. Finally found the nest here - a new hole very high in the same tree as last year (near, but worse, than a hole Ron opened up here a few years ago). They have 3 eggs, 2 of which looked clean an fresh, one of which was dirty (marked #1).

15 May Banded the 2 babies here as #1249 & 1250. They are (empirically) between 18 and 22 days old, so but they are a tad young, so I'd say they're ~ 19 days old.

21 May There are stores remaining here, somehow!

9 June *Group Update*

♀796. Last seen 23 December, gone by 28 Feb. →

Est FED: 14 Apr.
CS = 3
Fledged: 2

Melanerpes formicivorus

Fanny Arnold Nest Record HNHR

17 April 1730 3 eggs, marked.
22 April (Mark) 3 eggs
15 May 1400 Banded 2 babies
~19 do

	(1249)	(1250)
15 May	73.8 (45)	83.6 (44)

Melanerpes formicivorus

Fanny Arnold HNHR

(9 June) D.A. 25 Jan ± 1 month.

8940. Last seen 6 November, gone by 21 December →
DA 28 Nov ± 3 weeks

♀ 1022. Same as 8940 (Katy).

♀1098! This bird, the old breeding female from Tom Arnold (1985) is now feeding ~~at~~ here! Odd. Maybe she is ~~~~ related to the Fanny Arnold ♀ after all. She was seen here 21 May; presumably she joined the group sometime after 23 December when Katy did a census → Moved here ○ March ± 2 months.

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Melanerpes formicivorus

Upper Arnold 2 HNHR

23 January *Group Update*

♂123. ! Ack!! Last seen 7 Apr. (by Me), but wasn't there during the feeding watches which started on 16 May → 26 April ± 2 weeks.

♀778, ♀780. Last seen 19 February (by Philip?); gone by 7 April → DA 15 March ± 3 weeks.

see 22 March * below — No!

♀916. Last seen on 3 July (Missy), gone by 26 October, DA → 29 August ± 1 month.

j1026. Same as ♀916. DA → 29 Aug ± 1 month.

j1027. NSAB.

22 February 1330. Counted stores: Valley Oak: 1680 } 4393.
Dead Tree: 2713 }

The granaries here are loaded. I'd put capacity at 4500.

22 March *Group Update*

♀916 seen at Power struggle at Lambert on 28 Feb 1986.

5 April *Group Update*

♀916, ♀1028 Moved to Lambert ~3 March.

11 April 930. ♀ in hole in lower smallish Valley Oak. A nest! 5 eggs, inc. at least a few days! (Est FED = 5 April)

17 April 1600. We got babies! 4 babies, just hatched, plus 1 egg, developed but not zipped. This means that incubation must have started at least by 7 April, which yields a FED of 3 April (possibly 2 April!)!

By the way, there are lots of stored acorns remaining here.

20 April *Group Update*

♀632 is gone. Last seen 26 Oct (Katy), gone by

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Est. FED = 3 April
CS = 5 eggs,
2nd Est FED = 31 May
CS = 5

Melanerpes formicivorus

Upper Arnold 2 Nest Record

HNHR

11 April | 930 — 5 eggs, marked 1-5. (Inc a few days, but one "almost" fresh. Est LED = 9 Apr, FED = 5 Apr.

17 April | 1600 — 4 babies, just hatched, +1 developed egg.

* 2nd nest *

10 June 930 — 5 eggs, incubated.

16 June 1500 — 4 babies, ~3 do (heaviest weighs 12.2g). No unhatched eggs

Melanerpes formicivorus

Upper Arnold 2 HNHR

(20 April) 12 Dec. 1985 → D.A. 19 Nov. ± 2 wks.

She has been replaced by #117 (formerly of LA2), who was last seen there on 9 December.

→Moved here ~~Feb~~ Feb. ± 2 months.

♂681. Obviously now a breeder, even if he may not always have been one before.

♂♂1140, 1141, now breeders (but ♂1141 not seen recently...).

21 May Many acorns remaining in the granary here.

28 May Saw a fledgling here. No sign of a 2nd nest yet, however.

9 June * Group Update *

♂1141. Last seen 9 December (Katy); gone by 11 April → D.A. 8 Feb. ± 2 months.

10 June 915. Birds were around the nest hole from last summer (2nd nest) so I checked it, but it's empty.

930. On the other hand, the 1st nest hole from last year has a bird and 5 incubated eggs in it.

Melanerpes formicivorus

Lower Arnold 2 HNHR

23 January *Group Update*

8698. Last seen 19 Feb. 1985 (Philip?), gone by 9 April (probably; Missy watched). DA → 15 Mar ± 3 wks.

♀783. Last seen by Stanback on 8 July, gone by 31 Oct. 1985; DA → 4 Sept ± 1 Month.

22 February 1400. Counted stores: Blue Oak: 856 / Others: 198 } 1054.

Pretty good! I'd set capacity here at 1300. (They in addition could very well have 200 more acorns stuck in crevices in the dead Blue Oak).

11 April 1000. Noone in any holes here.

Mark found birds in a new hole here.

17 April 1630. Opened the new hole - 7 babies! not even just hatched, but probably about 3 days old! This would give them a hatching date of 15 April (possibly 14 April), incubation thereby starting on 5 April, and thus a FED (exclusive of egg-tossing) of 3 April (probably even 2 April). This and UA2 become the new records for the earliest nests! (Wilt, see BKOK 90) 17 Mar Sr.20 89

20 April *Group Update*

♀1117. Moved to UA2 0 ~~Jan~~ Feb. 1986 ± 2 Months. Actually, she was last seen here on 9 December and only recently seen here. See UA2 notes also.

22 April 1045. Ambusher set up at the nest hole; trying to nab the ♀♀.

1048. Bird in tree (not at hole): ♂ LP10r-Red[?] Red-WN/M ← Seen well # 1039 from SOBO

1215. Got one! Now ♀1207. Injected and released at 1330.

23 April 1200. Back up trying for the other ♀ and to recapture ♀1207.

1415. No luck. I'm leaving - it's cold up here.

Est FED = 3 April
Set size = 7 eggs (2 ♀♀)

Melanerpes formicivorus

Lower Arnold 2 nest Record

HNHR

11 April — Nest found

17 April 1630 — Nest opened: 7 babies, ~ in day 2. No eggs.

22 April 1230 — 7 babies, weighed

	① Yel	② Blk	③ LB	④ Wh	⑤ Or	⑥ DP-Yel	⑦
1230 22 Apr	39.0	35.1	37.4	33.1	27.9	23.3	16.9

8 May 1140 — 4 babies taken for metabolic runs; 2 left (the small ones)

These 4 taken →	1245 74.5	80.2	79.2	Gone!	69.1		

9 May 930 Banded & Bled

	# ① 1234	② 1235	③ 1236		④ 1237	⑤ 1238	⑥ 1239
WL:	(79)	(79)	(80)	Gone!	(74)	62.8 (42)	45.0 (28)
21 May 1030	-	-	-		→	still in nest! 72.2 (104)	-

Melanerpes formicivorus

Lower Arnold 2 HNHR

24 April 1310. Set up again to catch the ♀♀.

1415. Got the 2nd ♀ - now ♀1208. This was the 1st bird to come to the hole since I got here.

1450. ♀1207 over in the granary.

1545. Giving up. Noone else ever came to feed. Failure #2 for the year.

9 May 1030. Returned the 4 babies I stole yesterday for metabolic runs and banded all 6, although the smallest is far behind and seems unlikely to make it.

21 May 1030. Checked the nest, where there is still 1 babe (Manuve/M # yel-DP) who now weighs 72.2g and has a 104mm wing chord.

There are stores left in the granary, by the way.

28 May 1100. Nest is empty. No sign of a 2nd ♂ j1236 seen over toward Bianca (edge of knoll).

9 June *Group Update* ✓

Katy saw an ub♀ feeding here on 17 May; Thus there are apparently 3 ♀♀ here. We will add the 3rd as of Oct. 1984 along with the other 2 - we have no evidence one way or the other, but 3 unbanded ♀♀ could obviously have passed off as only 2 for a long time.

No! See 6 June 1987

Melanerpes formicivorus

Bianca HNHR

22 February 1400. Counted stores: 994. All in the "new" granary. They aren't even bothering to store elsewhere anymore. I'd put capacity at 1300.

11 April 1005. Noone in any known holes here.

22 April 1300. Found the nest - a new hole. Probably have eggs. (Maybe babies?)

23 April Mark climbed the hole.

? May 600. Banded the 4 babies here.

21 May 1100. Acorns are remaining in the granary here.

28 May 1100. jda/LP #1236 seen on the knoll toward LA2 (This is an LA2 baby)

16 June 1630. Bird in nest hole, but it's empty. Nobody in any other holes either.

16 November 1130. Watching (at the granary.) Doing alright with acorns here.

1140. ① ♂ DB-Red/Red DB #1232. ② ♀ YeDB/LB-Yel/M/Mv-LB #993.

♀1175 from Wolfpack! 1215. ♀ Red-wh(n)/M or/Wh #1175 chased off by ♀993. Who this?

1222. ③ ♂ DB/Yel #1180.

1240. ④ ♂ DB/Wh #1230(?) Huh? No - but it's a ♀: ♀ DG/Or/Wh #1230.

1250. Leaving. Birds are less than forthright here, but I probably got them all.

Est FED: 5 Apr
CS: ?
Fledged: 4

Melanerpes formicivorus

Biarea Nest Record HNHR

22 April — Nest found

23 April (Mark) — 4-5-day old nestlings

9 May 600 — 4 babies, banded

	① #1230	② #1231	③ #1232	④ #1233
9 May 600	79.8 (78)	75.3 (71)	81.0 (77)	77.9 (73)

Melanerpes formicivorus

POHill #1 HNHR

24 May Evidently things have been messy here, as I just found the nest here and it's fresh, with 3 eggs (it's in a new hole in the Black Oak). As most of the holes here are easy to get to, I should ambush here, and maybe even to DLWater.

3 June 1530. Checked the hole: 1 hatchling and 2 developed eggs. Today is hatching day.

Clutch size: 3

Est FED: 22 May

12 June 1145. Nest is empty! It failed.

W.D. Koenig

1987

Hastings Reservation

Melanerpes formicivorous

Melanerpes formicivorus

Aviary Birds

HNHR

9 May — Amazingly enough, Terry and the ♀ have 1 egg!

10 May — 2 eggs!

11 May — 3 eggs!

12 May — 1240. Still 3 eggs!

Melanerpes formicivorus

Chongo HNHR

24 March *Group Update*
j1263, 1264, 1265. All NSAB.
♀1109. Last seen 12 May '86, First not seen 30 Sept., →
D.A. 21 July ± 2 months.

12 April 1530. Noone in any holes here.

14 April Again, noone in any holes.

21 April 800. " " " " " . There are only a very few acorns remaining here.

13 May 1500. No sign of life here, but: Ian left a runt egg in the (mie) granary hole several days ago, and it's now gone. So at least something is paying attention to the hole.

3 June *Group update*
♀872. Last seen 30 Dec. 1986 (MKH), not here 4 March,
D.A → 31 Jan ± 1 Month.
2 new ub ♀ here, not seen 4 March but seen on 26 March (MTS) → Moved ~15 March.

24 June 1540. No sign of anyone here or in any holes.

Melanerpes formicivorus

24 March / 8 January — Buckeye HNHR

Group Update: (Birds to delete)

♂1002. Last seen 25 April, gone by ~~7 May~~ 7 May

D.A. 1 May '86.

♀987. Last seen 6 Nov. '86, gone by 25 Jan. - D.A → 15 Dec. ±1M

♀1153. " " 16 May, gone by 21 Sept., DA → 18 July ± 2M.

♀1216. " " 30 Sept, gone by 6 Nov., DA → 15 Oct. ± 2 wks

↘ at Chongo!

♂1217. " " 6 Nov, gone by 25 Jan, DA 15 Dec. ± 1M.

No! ✱ see 7 June ♂1351. " " 30 Sept at Chongo, gone by 6 Nov.

→ DA 15 Oct ± 2 wks

j1352, 1354. NSAB

♂1353, Last seen 11 Nov, gone by 25 Jan, DA 18 Dec. ± 1M

15 April 1045. Birds here, but noone in any holes.

21 April 730. Still plenty of acorns here. Nest is in same hole as last year. Birds now have 4 eggs.

3 June *Group Update*

♀987. Still here (seen 21 April)

7 June Cyndy saw (almost certainly) ♀1351 today, so I'm resurrecting her.

3 August *Group Update* (by Katy)

♀1154. Last seen 25 Jan '87, gone by 21 April → D.A.

10 ~~Feb~~ Mar. '1987 ± 1 M. (by Katy)

♂1215. Last seen 31 Jan '87, gone by 21 April → DA ~~D~~ 13 March. ~~6~~.

Melanerpes formicivorus

Plaque HNHR

17 January Group Update; Birds to delete.

♀1070. Last seen 30 June, gone by 7 July, DA → 4 July 1986.

j1271. Last seen 11 July, gone by 14 July, DA → 12 July 1986.

j1272. " " 5 Aug; gone by 5 Sept, DA → 20 Aug ± 2 wks.

j1273. " " 23 May, NSAB.

j1361. NSAB.

See Katy's notes for sightings, or lack thereof.

Earlier changes:

♀1068. Moved to "Radioactive" on 4 August (see Philip's notes)

Apparently may have gone with ♀1070, but this is not certain.

24 March More updates

♂1069. Last seen 10 Dec, gone by 2 Feb, DA → 6 Jan ± 1 M.

♂1359. " " 23 Sept. '86, " " 5 Nov, DA → 14 Oct ± 3 wks

♂1360. " " " " " " " " "

8 April Netted in the morning, catching and removing ♂521 for an experimental "control". He went into the aviary by 1200.

11 April 930. Well, sooner than I'd hoped, but they laid an egg this morning in the nest hole in the 2° tree. Mark removed it and, after marking the heat of ♂521, I released him. The idea is to observe his behavior with the nest, which will (hopefully) now "begin" tomorrow morning.

12 April 604. Watching. Noone in hole.

640. ♀973 in hole. Followed by (1st) ♂721 and (2nd) by ♂723. ♂721 is particularly attentive.

Q: Is ♂723 a breeder?

645. ♂721 in hole, leaves. Then ♀ leaves, followed by ♂723, who was also in the hole. Presumably an egg now!

Melanerpes formicivorus

Plaque HNHR

(12 April) 700. Noone at hole since ♀ left. ♂521 not seen at all yet.
704. ♀973 enters hole alone. Now ♂721 at hole. 707. ♂ enters, leaves. ♂723 enters. ♂721 at hole,
By the time the ♀ left at 734, the total number of hole visits was as follows (includes all visits to the hole since 704):

♂721: 15	Both ♂721 and 723 entered
♂723: 5	the hole on several occasions.
♂521: 1	♂521 sat at hole for a short
unknown ♂: 1	time at 733 only.

745. Going to check the hole. 1 egg, marked #1, 24.9 × 19.2
808. Back watching.
835. ♀ in hole. Trips to hole: ♂721: 1, ♂723: 1 ♀. Left at 839.
900. Being relieved by Loretta.
1800. Back again Nothing extraordinary so far; ♂521 is not coming to the hole much, however (apparently he is not mate-guarding).
1830. Checked the hole: the egg is intact.
1910. Interesting stuff here at roosting. The good news is that 4 birds were going around as a tight pack - maybe the ♀ and the 3 ♂♂, including ♂521? All 4 were very interested in roosting in the nest hole; as far as I could tell, 2 did so.

14 April 800. Well. Lots happening here. Yesterday (while I was in Berkeley) nothing special, although ♂521 was seen at the hole and did enter the hole on several occasions (see numbers on back). ~~This morning's Katy~~ A second egg was laid and Marked by Stanback. This morning, Katy

Plaque

Mate-guarding of the ♀ during 1st round of egg-laying, 12-14 April (following capture of ♂521)

		#visits to nest hole while ♀ is inside			
		♂521	♂721	♂723	?♂
6-900 12 Apr (WDK)		1	19	8	1
9-1200 "	(L)	0	7	4	-
12-1500 "	(KH)	0	11	7	-
15-1800 "	(CS)	0	4	5	-
Total for day		(1)	(41)	(24)	1
13 Apr. 525-900	(CS)	3	11	3	-
900-1230	(MTS)	0	12	5	
1230-1545	(L)	1	4	4	1
1545-1915	(KH)	3	10	7	-
Total for day		(7)	(37)	(19)	(2)
Σ grand mean		(8)	(78)	(43)	(2)

Mate-guarding of ♀ during 2nd round of egg-laying,

See Katy's notes

Melanerpes formicivorus

Plaque HNHR

(14 April) got here at 530 and already saw several birds in the hole (I imagine they may have roosted there last night again). At about 700, ♂723 was in the hole, the ♀ then entered followed shortly by a 2nd ♂, unidentified (!) but no markings were seen. Upon exiting, a ♂ tossed an egg. No markings were seen, but Katy says she was not able to see the yellow forehead markings yesterday either (she's now watching from the hill to take a look). I came down at about 800 to find the hole empty.

Somehow we blew it and did not see who tossed either egg. However, I suppose it's inescapable that ♂521 probably did it. What this, I suppose means, (at best) is that taking birds out does mess up confidence of paternity such that the birds toss anyway (e.g. The experiment doesn't control for what we want it to).

15 April Katy watched this morning; no eggs laid, although the ♀ did go to the hole. Guarding appeared generally weak.

16 April 1400. Hole still empty. (1st laid on 17 April, 2nd on 18 Apr.)

20 April Birds laid their 3rd egg today. They are incubating as far as I can tell, and 1 bird is spending the night in the nest, but I couldn't tell who. See back for the current data on who's doing what at the nest.

21 April 830. Still 3 eggs. *! Note! Mark reports 4 eggs at 1800!! *

1920. Tonight: success at last: ♂721 is roosting in the nest. (Note that ♂723 is doing the bulk of incubation, so I should try and catch ♂521 again!)

Melanerpes formicivorus

Plaque HNHR

22 April 1420. Still 4 eggs. Clutch almost certainly complete.

24 April Early this morning Loretta did a nest watch. Starting at 730 I put nets up and eventually (945) caught ♂723. Not perfect, but he'll have to do. The hope now is (1) ~~the~~ incubation will continue normally [hard to tell with the workmen all over the barn, which they are restoring], (2) I can catch ♂521 in a few days when (after) I let ♂723 go.

For now, ♂723 is in the aviary.

25 April A bird did roost in the hole last night. Also, Loretta did a watch this morning and they are still incubating (but not ♂521, and there are still apparently large gaps where ♂723 "would" have been incubating - they do not seem to be compensating for him very well!)

27 April 810. Let ♂723 go, who, by the way, had a brood patch and a cloacal protuberance. He is fine except for a toenail that broke off. Katy is watching until 1100, when I'll check the hole.

♂723 was out from 24-27 April (3 days).

1105. Still 4 eggs. Katy watched 'til now - ♂723 only (probably) came to the hole once, but did not go in).

1530. Me here watching. (Workmen are here with nacho equipment, but I think they'll be leaving soon.)

1730. Leaving. No sign of ♂723 yet, but others are incubating just fine (including ♂521 and a ♀ helper [♀984])

28 April Ambushed this morning, catching ♀973 (who I

27 April 1530 - 1730

♀ L 153000 watching. Hole most likely empty.
4045 ♀ leaves. ♂ was in the hole the whole time.

✓ ♂521 [5600. ♂521 enters
5930. Leaves

✓ ♂521 [160035. ♂521 enters
0135. Leaves (catcher bee at the entrance)

✓ ♂521 [0220 ♂521 enters
[245 ♀8 Enters
320 ♂521 L

✓ ♀973 L 705 ♀L

♂? [910. ♂? E
[2110. ♀973 E
2210. ♂ Leaves

✓ ♀973 [2800. ♂721 E
2815. ♀L

✓ ♂721 L 3810. ♂L

♀973 [4000. ♀973 E
4445. ♀L

[4910. ♀973 E
170430 LO
0500 Leaves

♂? [520 ♂? E
1350 L

♀984! [1350. ♀984 E
2600. ♀L

♂721 [2645. ♂721 E
2840 ♂L

[2840 BE ♀973
3000 Leaving (me)

	♀973	♂521	♂721	♀984	♂?	♀?
#Visits	5	3	2	1	2	1
Time in hole	3130 ~~2800~~ 3250	550	1205	1210	2130	1045
Time LO	:30	-	-	-		
Total	~~3200~~ 3320	5:50	12:05	12:10	2130	10:4

Melanerpes formicivorus

Plaque HNHR

(28 April) released immediately) and ♀984, who I took blood from and then released. Shortly thereafter Katy did a watch and virtually noone came to the hole (except a short visit or 2 by ♀973) so I guess they are freaked out (the ambush hole was ~10' above the nest hole). I checked the hole at 1100 - still 4 eggs. Hopefully they'll get back into it; I can only hope that all the disturbance (me, ambushes, and the workers at the barn, which now includes chainsawing, a dumptruck, and a dozer) won't hasn't finally got to them. At this point I'm going to give up on catching ♂521 and hope I can claim the experiment worked using ♂723.

1800. ♂521 in the hole! Maybe it's OK after all! (Looking out)

1815. ♂723 came to hole; had a hard time holding on, flew off, now sitting on the branch nearby. ♂521 still in the hole.

* 1824. ♂723 enters! (after ♂521 left. ♂723 had problems getting in, but he made it.)

1833. ♀973 enters. Both in hole.

1844. ♂723 leaves. (No egg in bill.) Yipee! Nest is OK, and ♂723 now has definitely had the opportunity to get the eggs.

29 April 1530. Still 4 eggs. Set up an ambush and am going to try for ♂521.

30 April 745. Still trying for ♂521. However, birds are incubating fine; ♂723 just left after 42 min. in the hole, mostly by himself.

Melanerpes formicivorus

Plaque HNHR

(30 April) 820. Got him! ♂521 removed (4 eggs still in nest.)

1 May 1510. Still 4 eggs (#3 infertile; others fine), warm but not pipping yet.

2 May 640. ♂521 released. Hole checked: still 4 eggs, not pipping yet. (♂521 ~~got~~ removed 2 days, 30 Apr - 2 May.)

9 May 1445. 2 babies weighed: green LL: 24.6 ; G-R(n): 27.9 .

The experiment went as follows: the 4 eggs were intact on the evening of 2 May; 1 egg was pipping. By noon on 3 May there were 2 babies and no eggs or sign of other eggshells in the nest. Those 2 babies have survived thus far. Thus, odd things happened at hatching: the infertile egg disappeared, as did the (apparently normal, but who knows?) third regular egg. This could have been the work of anyone; strange things have frequently happened at hatching before. In any case, the nest was not destroyed, and ♂521 is now doing some helping at the nest.

3 June *Group Update*

31150. At Y on 30 March (now breeding there). Also there on 24 March with other Y birds. Moved to Y, 24 March.

22 July 1000. Checked nest: crawling with ants! j BP-DG/M DB-LG/Maure being eaten! dead; wt = 32.2g.

j 902-43197 measured; bled: Wt: 72.1g. Wing chord: 69; TL 6th/p = 42 6th/p sheath: 28; Culmen: 20.1; TtoN: 13.2; BW = 7.5; TLCR = 31 LTsheath = 22.

3 August *Group Update*: 91149. Last seen 23 April. Not here by 24 June: → DA 23 May ± 1 M. (Never seen at nest).

Melanerpes formicivorus

Y HN HR

17 January **Group Update**

This group pretty much fell apart this fall, and only the breeding ♀675 is the only bird left. She is visited a lot still by the Plague birds, who spent a lot of time here stealing acorns in the fall, but still have not moved in. See Katy's notes for more details.

Gone are:

♂669. Last seen 1 Oct, gone by 26 Oct, DA → 14 Oct ± 2 wks

♂754. Last seen 15 May (feeding), gone 20 May, DA 18 May.

♀1135. " " 26 April, gone by ~29 April, DA 29 April.

j1228. ~~N~~ SAB

j1228. Last seen 2 July, gone by 26 July, DA 14 July ± 2 wks

j1229. " " " " " " " " " "

♀1349. " " 1 Oct, gone by 26 Oct, → 14 Oct ± 2 wks.

♀1350. " " " " " " → " "

♂970. " " 9 March, gone by 14 March, DA 12 March.

1 May 1500. Opened a new hole in the sycamore that these birds are clearly interested in: empty, but ready to go.

6 May ~~N~~ 1600. 2 eggs in new hole! Marked.

13 May 815. Watching: ① ♀ Te-Wh/Da #675. ② ♂ LBl-- / -LBlue #1150, Red-Blk/M

③ ♂ Red/Wh #375 06. All 3 here (♂♂ unrelated.)

3 June *Group Update*

♂1150. Moved here ~24 March, but had been down there a lot all winter.

3 August ♀1350. Returned! First here 15 July (seen at the nest), not seen on the 8 June nestwatch. → Returned 27 June ± 2 wks.

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Melanerpes formicivorus

1500 HNHR

17 January Group Update

j1275. Last seen 12 June '86 (Me), gone by 23 June, DA → 18 Jun ± 1 wk.

♀1329. Last seen 29 June (when caught), not seen since.

~~DA~~ Gone by 9 Aug, DA → 19 July ± 3 wks.

31100. Last seen 12 March, gone by 8 April, DA 25 Mar ± 2w

28 April 1500. Hole checked. No eggs.

1 May 1420. " " " "

6 May ~~NF~~ 1630. " " " "

18 May 1745. " " " "

Melanerpes formicivorus

1800 HNHR

17 January Group Update:

♂1095. Last seen 30 April, gone by 13 May, DA → 7 May ± 1 wk. (→ Stanback)

♀1163 " " " " " " " " " "

Both these were last seen by Stanback and not seen since.

j1322. NSAB

j1323. "

j1324. "

~~♂1093. Last seen 27 March, not seen 11 April, DA 4 Apr. 1 week.~~ ♂ Ha

♂1093. Last seen here on 22 Oct 85', gone by 13 Nov 85, → DA 30 Oct '85 ± 1 week. Seen once again on 27 March on the side of Haystack Hill. (Katy)

27 March Delete ♀1325, who appears to have dispersed to Blomone as of mid-March.

28 April 1530. Hole checked. No eggs.

1 May 1400. 2 eggs! Marked #1 & 2.

5 May Watched roosting this evening: ♂774 spent the night in the nest.

6 May 1215. Got ♂770! Whoopee! Also caught ♀193, who I released right away virtually into the talons of a Cooper's hawk who homed in on her screams. I hope she's OK - she's now sitting on a branch low in the tree recovering.

1300. ♂770 is pretty freaked out - he's now in the aviary, and I hope he's OK!

8 May 900. Bird in hole, incubating. Checked hole: 6 eggs (Mark had found a 3rd on 2 May). 1 was a runt, which I kept.

Mark, more random fieldnotes

Balanosphyra formicivora

Hastings Reservation

(6 Aug) a complete turnover of the Arnold 1 birds.

② A larger group of males from UA2 has taken over the A1 granary. This included (minimally) ♂1140, ♂1222, ♂1225, and ♂1027. All 4 of these birds were seen well and repeatedly in the A1 granary, waking, chasing intruders, etc. Three other UA2 birds were also seen briefly, ♂1340 Blk-Wht(N)/M, ♂1026 LGreen/LPink, and Juvenile (♂?) 1380 BlK-LPink/Black M /Red-OBlue.

* This could have been Juv. 1402 of A1

③ With the UA2 ♂♂ was a group of 3 ♀♀ from Keep Out. ♀1220, ♀1330, ♀1332. All 3 seen well and repeatedly in the A1 granary.

④ ♂100 (sob!) appears to be gone. No sign of him at A1 or anywhere in the vicinity. ♀505 Wht/LPnk Wht/LPnk however, still lives. She was hanging out well North of the A1 granary (downhill side of Big Tree) with Juv 1402 DBlue-Mauve/Black Blk-Wht(N)/M. No evidence of any other A1 birds around, although a ♂ no without bands was hanging out with ♀505 and J1402. Apparently, ♀505 was evicted by the KO ♀♀ after the death of ♂100 and the ensuing power-struggle. No idea what has become of ♀♀ 568 + 1319 and Juvs. 1400 + 1401.

7 Aug Watched at CV Grande 0600-0900, looking for Juv. dominance interactions, with No luck: the juvies seldom perched together anywhere, and when they did, I saw no interactions. They also spent quite a bit of

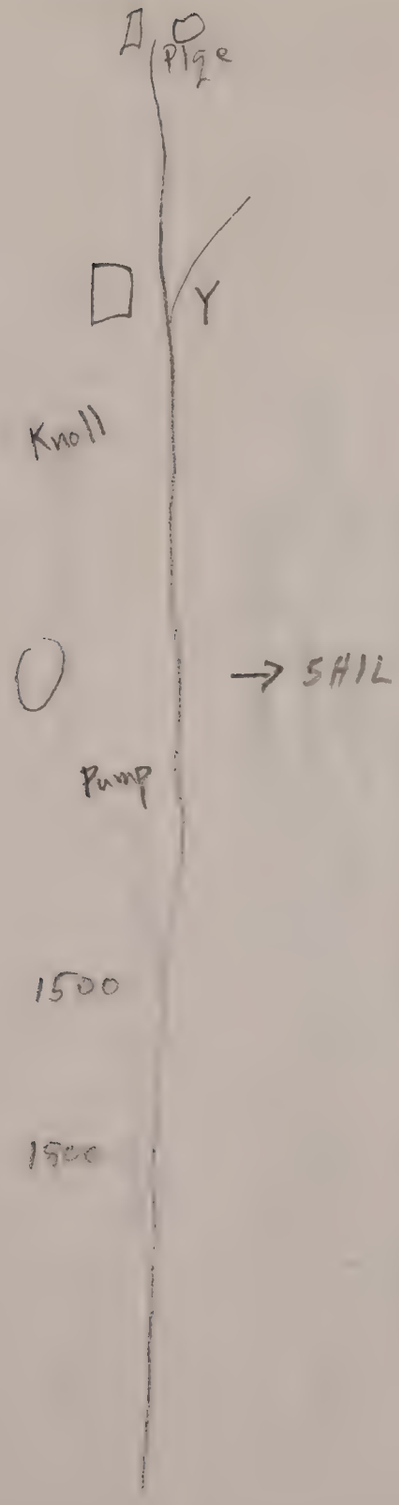
Balanosphyra formicivora

Hastings Reservation

(7 Aug) time sapsucking in the dense live oaks on either side of ~~CV~~ Carmel Valley Rd. near the CV canyon gate, which didn't help matters very much either. Good census, however: ♂837, ♀1042, ♂1081, ♂1079, ♀1284, ♂1285 all seen well, plus 4 surviving juveniles: 1430, 1432, 1433, 1434. No sign of ♂943, ♀1040, J1431. I suspect that all 3 are gone

~~10~~ 0930-1030 at Y and the Blomquist Knoll, a mini power-struggle in progress: Two ♂♂ from Hay-Blom (BP-k-wht(N)/Wht / Wht), ♂1301 (Red/LGreen LP-k-Red/Or) and ♂1303 setting up shop on the Knoll with ♀1350 of Y (Obn-BP-k(N)/Mauve-Obn M/LBlue). These 3 birds walked together frequently, while exploring the old fallen Knoll granary and the roost hole in the Blue Oak. This same sort of thing happened in fall of 1981 (see Knoll Set notes + Y notes)

At Y proper (in locusts by lower barn) were ♀675 (Grn-wht/M / Obn), ♂1150 (Red-Blk/M), and J1428 (M/Mauve DBlue-wht(N) /). (All 3 took dog food from the feeder) No sign of ♂1376, who is probably gone. J1428 also "visited" the Knoll birds briefly, but appeared to be chased by the Hay-Blom ♂♂.


Pipe
Y
Knoll
→ SHIL
Pump
1500
1500
SHW

Melanerpes formicivorus

1800 HNHR

(8 May) The others I marked #4 & 5.

♂770, by the way, is doing fine at home. He has a good brood patch.

9 May 1030. ♂770 released with brown dots on forehead; nest still with 5 eggs. [♂770 removed 6 May 1215 – 9 May 1030.] Eggs should hatch on or about 14 May.

12 May Watches here seemed to be going normally until this morning, when Cindy reported no activity here at all. Stanback climbed this afternoon and found only 2 eggs. Very bad news. I don't see how I can weasel out of this one, although I don't understand why, if ♂770 did go bonkers, he didn't toss all the eggs. And why would They abandon? All in all, it just doesn't make a lot of sense. Maybe something strange has happened to the group, or maybe a predator got Them; hell, I don't know. Maybe I'll watch in the morning and try to find out what I can. In any case, this is totally depressing. It means that, for all practical purposes, several eggs did get tossed or destroyed, and my control (the best I have so far) is more in favor of the "freaked out" hypothesis than the alternative.

13 May 600. Checked hole: 1 egg left. Watching the tree.

640. ♀ R-W/M #787 here. A fair amount of activity, apparently due to a ♀ intruder. (♀ Mauve?/Yel) ② ♂770 here.

700. ♂774 here, pecking ~~♂770~~ and hopping on his back to do so (!) Meanwhile, ♂770 was giving submissive calls. This would certainly indicate that I really screw

Melanerpes formicivorus

1850 HNHR

(13 May) up dominance relationships by removing birds, as we had reason to believe that ♂774 < ♂770 before. (And even if he wasn't, this seems to be an unusual amount of aggression between cobreeders.)

725. ♀ Redbrush/M #193. All 4 birds are here. It's all still pretty odd; I don't understand the abandonment or the egg still left in the hole. It does let me cling to the idea that a snake got in the hole, or something odd happened. But it certainly seems possible, even likely, that it is a direct or at least indirect consequence of ♂770's removal.

14 May 1030. Hole now empty. Probably irrelevant, since the birds had clearly already (for whatever reason) abandoned the nest, but I still wish they had left it.

2 August Missed a renest! Ambushed this morning at the regular nest hole, nabbing 1 bird only - an ub baby. According to Katy, this is probably the only one here.

Melanerpes formicivorus

Hay-Blom HNHR

17 January Group Update:
j1299, 1300. NSAB.
j. 1302, 1304, 1305. All NSAB(!)

25 March 1100. Brought Cindy up here. 1 bird (♂1083) was sapsucking near the PO patch; at least 3 were way over by Far Tortuga flycatching. I left Cindy to watch and chased after the other birds, eventually seeing some down by the (old) fence above 1 (S) of the SOTO springs. ID's were 1 ♂ LB/Blk-LB #571 and 2 ♀♀. Bands of 1 was ♀ DB/Red-Yel(n) ??

11 April 2000. An ambush tonight at a new hole in the old nest tree (by the fenceline) yielded 3 birds: ♂1303, ♂1085, and ♀941. I weighed all 3, and, in lieu of catching ♂571, took ♂1085 and kept him in the aviary for another temporary removal experiment.

21 April 1700. Noone in any holes. ♂1085 still in aviary, doing fine.

8 May 930. Bird in the old (deep) hole! ♀

1500. Hole opened: 6 fresh eggs! One was, unfortunately, broken in the process of opening the hole, so there are 5 remaining. Incubation has just begun (there was a bird in the hole again when I came.)

10 May 1345. Hole checked: 1 new egg! So there are now 6 eggs again (a set size of 7, inc. the one I broke). Bird in hole.
I'm now releasing ♂1085.

11 May 530. Watching. (Noone watched yesterday.) No action here at all by 630, so I checked the hole: still 6 eggs.
640. Watching again.

Melanerpes formicivorus

Hay-Blom HNHR

(11 May) 700. Moved the blind and left. Hole will be watched again this evening and tomorrow morning. Nothing going on at the moment!

12 May 518. Watching again.

818. Leaving. See transcription on the back.

14 May 1100. Still 6 eggs, and no problems (but noone, as far as I know, has seen 91085 at or in the nest yet).

12 May 518-818

1800. Arrive
5030. Bird sticks heat out
5050 Leaves

♀941
- 5110. ♀941 E
- 5245. Heat out
- 5407. BD
- 5930. ♂571 E ; ♀L

♂571 (6:00)
- 2030. LO
- 2050 BD
- 2700 LO
- 2720 Leaves

♂1206
- 2800 ♂1206 E
- 5400 ♂571 E
- 5415 ♂1206 LO
- 5430 L

♂571 (7:00)
- 100 ♂571 L

♀941
- 300. ♀941 E
- 2630. L

♂571
- 2710 ♂571 E
- 2850. ♀1078 E
- 2910. ♂L

♀1078
- 4800. ♀L

♂571 (8:00)
- 4807. ♂571
- 300. LO
- 400. L

♂1083
- 900. ♂1083 E
- 950. ♂L ♀941E

♀941
- 1550. ♀L

♂1206
- 1630. ♂1206 E
- 1800 Me leave

	♀941	♀1078	♂571	♂1083	♂1206
#visits	3	1	48	1	2
Time In	36:35	18:50	51:10	:50	27:45
Time Lo	1:15	0	1:40	0	:15
Total time	37:50	18:50	52:50	:50	28:00

Melanerpes formicivorus

Lower Haystack HWHR

January 17 Group Update:

Resurrect: ♂1046, seen 1 Oct (Katy), after not being seen since 28 April. I think we will assume that this bird was gone between ~8 May and ~25 Sept. (not seen 17 Sept.).

Geek off:

♂1044. Last seen 2 May, not seen 14 May, DA→8 May ± 1 wk.

j1251. " " 2 July, " " 17 Sept; DA→8 Aug ± 1 month.

j1252. " " here on 29 June, not seen 17 Sept, seen at Rajneesh on 25 Sept. Thus, probably left group but we'll have him Disappeared about 1 Sept. ± 1 month.

j1253. Last seen 29 June, gone by 17 Sept, DA→ 10 Aug ± 1 mon.

j1254. NSAB.

j1347 NSAB.

24 March ♂857. Last seen 1 Oct '86, gone by 21 Dec., DA→ 10 Nov. ± 1 M.

♂1348. Ditto.

1 April 950. Power struggle here!

① ♀ R-w(n)/Red ② ♂ Or-w/M #1155. ③ ♀ Or/M

④ ♂ Or-Blk/Or-Wh #1146. ⑤ ♂ DG/M #1046. 5+ ub ♀♀.

About 15 birds involved, including several out on the periphery. ⑥ ♀ R-Or(n)/R-Or(n) ⑦ ♀ Yel/M

21 April 1700. No sign of anyone in any holes here.

6 May 820. 1 egg in hole! (laid at 645.) Ian Tait is here to get egg-tossing, so we could be in luck. Unfortunately, there's some power struggle activity here to confuse the issue, but we'll go for it!

1100. Watching. (Are there still 2 ♀♀ here?) ① ♂ Or-Blk/Or-Wh #1146.

② ub ♀ drumming in 2° tree. Still some chasing.

Melanerpes formicivorus

Lower Haystack HNHR

(6 May) ③♂ Or-wh/M #1155. ④? Nr/wh-DG/DG/M #1046; ⑤? Red/Red Or/M #1266 from Gazebo [♀]

1130. My guess at this point is that these 4 birds are it, and that there's only 1 ♀ (!)

1200. still no sign of a 2nd ♀. Leaving for now.

7 May 800. Ian reports no activity at the hole this morning, and indeed, egg #1 is still the only egg there.

8 May 945. 2 eggs in hole. Ian reports that, as I suspected from my watch on 6 May, There are only 4 birds here, and that ♀1266 is the breeding ♀.

9 May 1715. Still (the same) 2 eggs in the hole.

10 May 1400. " " " " " " " . Have they gone to another hole? or what's the deal then?

11 May 700. Watched here a bit after checking holes. The 4 birds are still pretty tight here, but are not (obviously) going to any holes. ♀1266 seen; also 3 ♂♂, though I didn't see their bands. ♀1266 still drumming some (!)

730. Still 2 eggs in the hole. Given that the birds show no sign of incubation, I'd have to guess that they've abandoned this nest.

3 June *Group Update*

♀524. Presumably gone just before the power struggle here on 30 March.

♂1046 and ♂1146 now breeders, inherited 30 March.

♀1266 and ♀1267 from Gazebo moved here (maybe not ♀1267). ♀1267 not seen (so far) after the PS.

Melanerpes formicivorus

Blomore HNHR

17 January Group update:

♂1169. Last seen 15 April, gone by 25 May (Sue); DA → 5 May ± 2 wks.

24 March j1355, 1356, 1357, all NSAB.

♂832. Last seen 18 July '86, gone by 19 Sept, DA → 18 Aug ± 1 m.

♂1087. Ditto.

♀♀809, 812, both here 20 Jan, gone by 5 Feb, → DA 28 J ± 1 wk

Replaced by ♀1325 (from 1800), who moved there between 23 Feb and 26 March, → 11 March ± 2 wks.

♂492, here 14 Feb, gone by 26 March, → DA 6 March ± 3 w

♂1358, here 10 Dec, gone by 20 Jan, DA → 30 Dec ± 3 wks

24 April 1100. Cleaned out starling nests from the hole in the Big Blue Oak by the path and in the hole over toward Far Knoll.

6 May 1730. Bird in new hole; the nest?

7 May 915. Hole opened; empty, but in good shape (except for a few sprigs of grass which I removed).

11 May *Group update*

j1356. Alive and well at Blomtwo. Change to "Moved" 1 Feb 1987 ± 3 months.

14 June 1700. ♀ in new hole in dead lone tree.

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Melanerpes formicivorus

Blomtwo HNHR

10 May 1445. Noone seen here in passing.

11 May 815. A pair of birds here. ♀ is banded: ♀ M/(Yel-DB)?
845. They're still here: ♂ ~~DB/Yel~~ Blk(?)/M LB/Blk-Yel 1054.
♀ Wh-DG/Wh #1356. The R leg of both birds was seen well. I should be able to identify them. They are definitely hanging out here this morning, as one would expect residents to.
♀ is 1356, a 1986 Blomone baby "not seen after banding"!
♂ is 1054, a 1985 Blomthree baby who was at Blom~~three~~two on 17 January 1987 with 6989.
For the moment, I think these birds should be put here as an active group. (♀ moved here 1 ~~Apr~~ Feb. ± 3 months)

29 May 1300. Came by here yesterday and today and saw nothing. So much so that I already wonder if these birds have abandoned the area...?

3 June *Group Update*
♀1202. Last seen here 15 Apr. 1986, birds were interested in holes through the 1st half of May, but no sign of this bird after this → DA 15 June ± 1 month.
♂1132. ~~Seen here by MTS~~ This bird was never here!
♂1054. Here, apparently, since winter of 1985-86!

14 June 1715. No sign of life here in passing.

Melanerpes formicivorus

Blomthree HNHR

17 January Group Update:
♀1172. Last seen 29 March, gone by 1 May, DA → 15 Apr ± 2 wks
j1258. NSAB.

24 March 6769. Last seen 25 Sept. '86, gone by 30 Oct., DA → 29 Sept.
61171. D'Itto.

12 May 1445. Cleaned out a nest of (almost fledged) starlings from the lower hole here (last year's hole); plus, the cut from the upper hole was loose! Maybe they'll be in better shape to nest now...

3 June *Group Update*
♀1185. Gone. Last seen 9 Nov. 1986 (Katy), gone by 14 Feb. 1987, DA → 25 Dec ± 1 month.
♀1259. Same as ♀1185.
♀1260. " .

No! Seen by Katy here on 1 July '87
♀1261. Last seen 2 April, presumably left at the time of the 23 Apr. power struggle (but not seen at the PS)
♀1170. Seen at the 23 April power struggle, presumably no longer here. (No! Seen by Cindy on 4 June.)
8989, 1262 inherited, now breeders.

Melanerpes formicivorus

Gazebo HNHR

17 January Group Update:
j1268. NSAB.
j1269. " .
j1364, 1366, NSAB.

24 March ♀1267. Last seen 21 Nov., gone by 24 Jan, DA → 8 Dec. ± 1 month.
j1270. " " 25 Sept, gone by 21 Nov, DA → 23 Oct ± "
♂1365. " " 21 Nov, gone by 24 Jan, DA → 8 Dec ± 1m.

3 June ♂1104. Last seen 24 Jan, gone by 3 March, DA → 12 Feb ± 2wks
♀1266. Moved to LHay 30 March.
♀1267. With ♀1266 at LHay on 30 March. Obviously here all winter. Not seen since, so we presume she left the group.

Melanerpes formicivorus

F-Troop HNHR

17 January Currently defunct (never did very well).

Group update:

♀1204, ♂1079. Both bred (unsuccessfully) here in spring '86, and appear to have stayed here until possibly as late as August (see Stanback's notes). ♀1204 then disappeared, while ♂1079 returned to GUCreek and was 1st seen there 7 September (he was not seen there on 7 August). Hence, both abandoned about 25 Aug ± 2 weeks (or possibly earlier). Territory has been unoccupied since (not surprisingly).

1987 Walter D Koenig

Melanerpes formicivorus

CUGrande HNHR

17 January Group update

♂1079. Returned here (from F-Troop) ~25 August. See F-Troop notes for more details.

j1286. NSAB

j1288. Last seen 4 August, gone by 7 Sept, DA 21 Aug ± 2 wks.

24 March ♀1287. " " 7 Sept, " " 26 Sept, DA → 16 Sept ± 1 wk.

4 June *Group Update*

♀1284, ♂1285 status unclear.

1987 Walter D Koenig

Melanerpes formicivorus

Murf HNHR

17 January Group Update - More or less OK at the moment.

24 March ♀1328. Last seen 27 June, gone by 7 Aug, DA 17 July ± 3 wks.
Replaced by
♀965 & ♀921. Moved here between 24 Feb and 12 March
→ Moved 5 March ± 1 week.
♂1339. Last seen 8 Sept., gone by 3 Dec, DA → 20 Oct ± 1 M.

4 June *Group Update*
♀965. Never here. Should have been ♀1144 (from PHF)
♂B38. Became a breeder when ♀1144 moved here ~5 March
♀921. Probably seen here 12 March, but not since.

1987 Walter D Koenig

Melanerpes formicivorus

CV#2 HNHR

17 January Group Update.

Things are kind of a mess here, as we never got a good census last spring and there were too many unbanded birds to get things straight anyway. I've sort of patched things together in a reasonable way including the 2 ♂♂ caught by Stanback in November (one of whom had not been on the fieldlist before).

1987 Walter D Koenig

Melanerpes formicivorus

OK Corral HNHR

4 June ♀696. Last seen 26 Sept '86, gone by 29 Jan '87, → DA 27 Nov ± 2 months.

♂1159. Same.

j1240. NSAB. Also j1243

j1241. NSAB. Also j1244

♀1242. Gone by 29 Jan, here 26 Sept → DA 27 Nov ± 2 Mo

♀1245. Ditto.

1987 Walter D Koenig

Melanerpes formicivorus

Dark Hollow HNHR

17 January Group Update: j1308 → NSAB

24 March ♂1063. Last seen 19 Nov, gone by 20 Dec. DA → 5 Dec. ± 2 wks.
No! Still there 28 March.

3 August Let's tree again: ♂1063, last seen 28 March, gone by
3 April → ~~DA~~ 30 March.

Melanerpes formicivorus

Gate HNHR

17 January Group Update
♀1107. Last seen 27 April, gone by 6 May, DA → 2 May '86
♀1108. Returned! First seen 9 Nov. 86, not there 20 Oct.
(Katy) → Returned 30 Oct 86.

6 March ♂627 found DOR along road by Joan. Boo!

24 March ♀1314. Last seen 9 Nov, gone by 12 Nov, DA → 10 Nov.

4 June *Group Update*
♀1097. At LHay power struggle 30 March, seen at Gate 4 April (Katy), gone by 12 April. Left group?
2 new ♀♀ seen here 27 April, → Moved here ~20 April
This allows the young ♂♂ to inherit.
~~♂1313. Last seen 12 April, gone by~~
♂1313. Here 30 April, gone (prob.) by 4 April (Katy).

6 June Ambushed this morning at The Live Oak hole; caught ♀1315 (only bird There).

13 June Ambushed This morning at The low hole in The dead limb in The Sycamore, catching 3 birds (all banded): ♀1108, ♂1312, and ♂1313.

30 July 600. This time a successful ambush at the high sycamore hole. Unfortunately 1 bird (The ub ♀, apparently) got away. Otherwise 4 birds, inc. ♀1097, ♂1312, ♂1313, and ♂1106.

3 August *Group Update*
♀1097 is back! Returned between 15 July - 30 July.
Her return (she is the former breeding ♀ here) prompts me to wonder what's up with the 2 ub ♀♀. Maybe they originally kicked her out, but now that one of them is (apparently) gone, maybe she's back. In any case, there is still 1 ub ♀ hanging around, but maybe not for much longer!

Melanerpes formicivorus

Pipeline HNHR

17 January Group update

This group is defunct, and has been since about the end of June, just after the young fledged. However, Mark added acorns at the end of July and they returned for a week or so afterwards. Functionally, however, they were gone much earlier.

Stanback ambushed at this time

♂1182. Last seen 20 Feb., gone by 6 March, DA → 28 Feb ± 1 wk

♂5238, ♂1183, ♀1362, and babies 1316, 1317, 138. All abandoned ~30 June, but seen again 29 July following addition of acorns. See Stanback's notes for more details.

4 June *Group Update*

♂1317. Certainly here by 27 April. Apparently with an ub ♀.

♀ub, also here 27 April

1987 Walter D Koenig

Melanerpes formicivorus

Warp 5 HNHR

17 January Group update

Now defunct, and probably has been since about the end of March. Last time birds were seen here was 19 March (Katy); two (♀♀997 & 998) were seen at a CV Grande power struggle near the end of March. Although birds can occasionally be seen up there, there ~~is~~ has basically been no solid sign of life since April.

0636, 9ub, ♀997, ♀998, all abandoned 30 March (± month)

→ Seen again at CV Grande

23 May 1700. Walked by here, seeing no sign of birds or stores.

1987 Walter D Koenig

Melanerpes formicivorus

Wolfpack HNHR

17 January Group update

j1277, 1278, NSAB.

4 June ♂1179. Last seen 22 Sept, gone by 26 Sept. → DA 24 Sept.

♀1276. Last seen 26 Sept, gone by 30 Oct. → DA 30 Oct.

♂1174. Last seen 7 Dec, gone by 26 March, apparently well before, however, hence DA ~ 31 Dec ± 8 wks.

♀1175. Last seen at Wolfpack 26 Sept, at Bianca on 16 Nov, Seen 2 June back at Wolfpack.

So, [redacted] left group ~ 21 Oct ± 3 wks, returned [redacted] (RI birds here until then).

→ by 21 April (seen by Cyndy!)

presumably with a new ♂ (ub).

See Finch notes for info on ♀♀1176 and 1177. I am now assuming that they never (successfully) moved to Finch, although it looked like they had last summer.

Melanerpes formicivorus

Road 1 HNHR

17 January Group update
j1246, 1335, 1336, & 1337, all NSAB.

24 March ♂994. Last seen 6 July, gone by ~~10 Aug~~ 17 July, DA ~~25 July~~ 12 July ± 1 wks
No back → ♀1248. " " 26 Oct, " " 19 Jan, DA 7 Dec ± 1M.

20 May 1200. Checked the Wolfpack hole: empty.

4 June *Group update*
♂486. Last seen 10 Aug, gone by 9 Sept. → DA 25 Aug ± 2w
♀383. Last seen 9 Aug, gone by 9 Sept. → DA 25 Aug ± 2w
~~This~~ ♀1248. At R1 today (Katy). Possibly not here all winter, but in any case, back now.

With no breeders from last year and no new births, the status of this group is clearly up in the air.

1987 Walter D Koenig

Melanerpes formicivorus

Finch HNHR

4 June *Group Update*

♂1137. Last seen 24 Sept, gone by 27 Oct, DA 10 Oct ± 2 wks.

♂1334. Ditto.

♀1176 ~~Here~~ Last seen at Finch on 6 Sept '86, ♂ was back at Wolfpack on 26 Sept, never seen again.

This bird apparently had moved here in the 14 July power struggle; but was really never settled, and we now believe she never did (nor ~~[illegible]~~, ♀1177!)

Melanerpes formicivorus

MacFlat HNHR

17 January Group update (Mc)

81072. Last seen 16 Oct '85, gone by 20 March or so (censuses tended to be hard here). → DA 31 Dec.'85 ± 2 Mo.

81074. Last seen 2 June '86, gone by 1 August, DA → 1 July ± 1 Mo

j1295. NSAB.

24 March 971293, 1294, Last seen 30 Dec, gone by 25 Feb, DA → 28 Jan ± 1 M

Melanerpes formicivorus

Road 3 HNHR

17 January Group update
6 ub, there 6 Sept, gone by 20 Oct (census) or maybe even 16 Sept (ambush, caught all but him!). DA→11 Sept.
♂1296. Last seen 17 Sept, gone by 20 Oct.; DA → 3 Oct ± 2 wks.

20 May 1000. Watching. Bird in the hole over the road (I'm watching the tree, however).
1120. ♂ M/Blk-BP(n) #1011. Plus (I think), 2 ♀♀. Birds are incubating (I'm pretty sure.)

2 June 1300. Checked the hole: empty.
Group Update
♂ 1298. Last seen 24 Feb, gone(?) by 27 March → DA 13 March
No. → see below. ♀ 1205. Last seen 23 Dec '86, gone by 24 Feb, DA 23 Jan ± 1 Mon
A new ♀ ub here, we'll say on 1 April ± 1 Month.

5 June 3 birds went into nest hole tonight, but ambush failed.

18 June 600. This time I got them all (3), in the old nest hole facing the road in the main trunk. However, contrary to expectation, the ♀ was banded; indeed, she was #1205. So the group returns to its former state!

1987 Walter D. Koenig

Melanerpes formicivorus

School Hill — HNHR

12 May 1730. Opened the new hole in the "traditional" tree: 3 eggs, not absolutely fresh (thus, clutch is probably complete). Also, just from listening, I'd say there are at least 3 birds here.

14 May 805. Watching territory.

835. Well, so far it looks like ① ♀ WhU / DB #260, an ub ♂, and at least one other bird, probably 2. Plus, there seem to be intruders up here as well; there are ≥2 birds hanging out in the trees above the exclosure that either don't belong here at all or are a splinter group.

850. Yes, we are talking ub ♂(♂?) here! It's hard to tell, but I wouldn't be surprised if we were talking 5 birds here.

910. Other than the ♀, all I see are ub ♂♂. I bet there are 3 or 4 of them.

915. Leaving. I'd say some indiscriminate netting would be in order.

16 May 830. Still 4 eggs. By the way, from watching roosting, there are definitely 6 birds here!

19 May 600. Ambushing at the new hole on the other side of the limb from the nest hole, I caught 4 unbanded ♂♂ this morning! Assuming 1 more spending the night in the nest, this makes a group (unit) of 5 ♂♂ moving in here.

These 4 are #1378-81

Note: numbers have been changed.

715. It turned out that there was a 5th unbanded ♂ by himself in the Blue Oak hole! I banded him as well (01382), but I wouldn't swear that he belongs in the group (the bird was molting for one thing). But who knows, the birds were roosting here 2 days ago, so why not? There very well may be 6 ♂♂ here, 5 of whom are now banded.

0977 is almost certainly gone.

Melanerpes formicivorus

School Hill HNHR

6 June *Group Update*

3977. Last seen 28 March (MKH), gone by 3 May, when Mark saw lots of "extra" birds here (who nested by 10 May). →DA. 15 Apr ± 2 weeks, probably forced out by the new ♂♂ here.

Add. Lots of new ♂♂, 6 of them, it would appear. (no doubt not all of them will stay!). All are now banded save 1 (who incubated at night).

8 June 445. Ambushed all 3 holes in the nest tree this morning:

Old nest hole: nobody

New hole above prior hole: ~~♂1387~~ ♂1386 and ub ♂, now ♂1426

Note that this ♂ is (presumably) the nocturnal incubator who I missed earlier)

New nest hole: ♂1387.

I thought more birds roosted here (there were ≥5 ~~last~~ 2 nights ago for sure), but this was all I ended up with. In any case, all should now be banded here.

24 June 1600. Noone in any holes.

3 August Katy saw an ub ♂ (the 7th!) here on 31 July; perhaps there's yet another up there!

I'm adding him along with the others for now.

Melanerpes formicivorus

School Hill West HNHR

17 January Group update

I think the former birds abandoned this ~~g~~ territory late last winter (eg. March '86). None were seen again except for ♀975, who was seen at the Lambert power struggle on 28 Feb '86.

So ♀46, 6530, ♀975, ?974, & ?1041 all abandoned 1 March ± 1 month. (Note that they had acorns here on 9 Feb.)

11 May 1845. Nest here is in a huge knothole; babies have hatched recently.

14 May 1000. Finally sawed open the hole: 3 babies, eyes just opening (≅9 do). Band on ~28 May.

16 May 850. Watching nest; ambusher set up.

900. ♂ banked (?); ♀46, tried and missed her.

1030. Well, that was my big chance for the day. Leaving.

22 May 1310. Still 3 babies; watching again.

1415. ① ♀ Mauve/Larsen & Metal/Mauve-? ! feeds. (R leg certain, L leg has M)

② ♂ Yellow/M

③ ♂ Or/M I don't think this is the same as ♂#2.

④ ♂ Mauve/M !

⑤ ♀46! Caught her! #1389.

① is ♀1374.

23 May 1050. Watching (left side of hole).

1120. ub♀ here, chased away by someone. And again, chased off by ♀1389.

1140. ② ♂ Or/Wh-Blue Maybe ♂ Wh-Or/Wh-Blue but I doubt it.

1240. Don't ask me where they're getting them, but the birds are definitely feeding acorns here (last 3 feeding by ♀1389/♀1374)

Melanerpes formicivorus

School Hill West HNHR

(23 May) 1230. Leaving. I've only seen one ♂ here who is consistently ♂Or/ ; only that one time could I see anything more. 1240. One more look: ♂ Or/M Or/ . What about those "other" ♂♂? No sign of them today.

As best I can tell, this ♂ must be ♂ Or/M Or/Maune #908, a bird last seen as an adult at CV1 back in summer 1983.

29 May 1600. Banded the 3 babies

	①	②	③
Bands	LPink/902-43025 Red-DBlue/Orange	Brown-Green/Green-Brown Brown-Orange/902-43026	LB/Yel DB/Yel
wt (Wing)	89.0g (70mm)	81.0 (79)	82.2 (85)
Length 6th P (Sheath 6th P)	52 (27)	49 (24)	60 (26)
Culmen (Tip-nostril)	21.1 (14.1)	19.2 (12.5)	20.1 (14.0)
Bill width	7.8	8.3	7.5
Length Central R (sheath)	40 (22)	36 (19)	41 (22)

30 May 1430. Watching nest.

♂♂ LP-Red/ . Seen again; no sign of a 2nd band on the leg. This is not ♂ Or/M Or/ (who I believe is ♂908). Perhaps ♂ Yel/M Yel-DP/LP #1037? Also, the ♀ M/MV-DG here.

1630. It is ♂ Or-Red/ (no 2nd band); which means it could be ♂ Or/M Or/ . No other ♂ seen here this P.M. What is going on here? Given what I saw of R legs earlier, I'd have to guess that this ♂ is ♂1037, and that he is teamed up here with ♂908. (The 3rd ♂ was probably in error, or a mixing of sexes/legs).

1700. Leaving. ! ♂ came again, got a good look at both legs: he is ♂ Or-Red/M Or-Red ; I also am pretty sure that the M band # ends with a "2". He has lots of facial spots. The LR band is worn and could be just Or/, but I don't think so.

Melanerpes formicivorus

School Hill West HNHR

31 May 1020. Watching & ready to catch the ♂ if I get a chance.

1330. Leaving. No chance to catch ♂, though I will try tonight.

My current impression is that there is only 1 ♂ here, who is ♂ Or-Red?/M Or-Red. I still don't know who this could be. There are 2 ♀♀, although only the previously banded one is feeding these days (I saw her once yesterday and once today). The ♂ could certainly be YP-Red or something similar rather than Orange.

2000. Well, I caught the ♂ in the vesthole after dark: he's 8530, banded as an adult here in fall 1979 and last seen here prior to last spring! His bands were indeed almost indecipherably faded; he's now rebanded. He was released early on 1 June.

6 June *Group Update*

8530. Apparently left last spring (I never saw anyone here in spring '86) but back by fall, saw 0 Sept.

♀1374, ♀1389. Katy saw 2 unb ♀♀ here on 7 Jan '87. We caught ♀1374 on 11 Jan, ♀1389 on 22 May. Both were again here (presumably) since last fall.

24 June 1610. No sign of anyone in passing.

Melanerpes formicivorus

Black Cole HNHR

January 9 ~~September~~ 830. Counted stores: Main area: 1092 / Side area: 512 } 1604

They are storing in the bark of one of the side trees (the one with the roost hole facing SOBO) for the first time (that I know of).

17 January Group update

j1210, 1345. NSAB.

1 March 950 Watching Birds still sapsucking.

1010. ① ♂ Yel-DB/M #1213. ② ♀ Yel/R-W(w) #1190. ③ ♀ DB-W(w) M/Wh-LB # 1211.

④ ♂ Red-B/M #1209. ⑤ ♀ Red-BL/M Mauve/ #1346 ⑥ ♀ DB/Wh-DB # 1212.

1040 ⑦ ♂ Bk/Or-Yel #426 ⑧ ♀ DB-LB/M #1007 ⑨ ? LP/Red #744.

1100. ⑩ ♂ Red-Wh/Wh- #1006. ⑪ ♂ Mauve/Yel #1009. ⑫ ♀ M/DG-LP #1004

1230. Leaving. Birds are sapsucking, flycatching, and eating stored acorns; they may be eating catkins as well. I saw all 12 birds ≥2 times, so I doubt ~~there are~~ I missed anyone (although it is possible). ♀1189 is certainly gone, at any rate; The birds to have a fair number of stores left.

Group Update

♀1189. Here for the '86 breeding season (last seen 28 April), gone by 11 Nov, → DA 31 July ± 3 months. There should be only 1 breeding ♀ here now.

24 March *Group Update*

♂1214, ♂1343, ♀1344. All seen 10 Nov '86, gone by 1 March → DA 5 Jan ± 2 M.

Melanerpes formicivorus

SOBO HNHR

9 January 900. Counted stores: 895. (I'd guess that I'm missing several hundred here by not going below the tree. The granary is pretty full.)

17 January Group Update

Delete: ♂1037. Last seen 3 Dec. '85, Not seen since, so presumably gone by 31 March, DA → 31 ~~Feb~~ Jan + 2 Mo.

♂1038. Last seen 31 March '86 (Katy), gone by 16 Nov for sure, ~~and~~ so DA 24 July + 3 Mo.

Melanerpes formicivorus

~~Ida~~ Arnold 1 HNHR

17 January Group update

No → see 6 June ♂100. Last seen 16 June, gone by 16 Sept, DA → 31 July ± 1 mo
j1321. NSAB.

24 March ♂1020, 1021, both last seen 4 Nov, gone by 10 March
→ DA 7 Jan ± 2m.
♂1320. Last seen 18 Sept, gone by 4 Nov, DA → 11 Oct ± 1m.
♂♂ replaced by
♂924 and ♂926, moved here ~~(marked)~~ between 4 Nov and 10 March '87, → ~~(seen)~~ but activity there on 1 March suggests it was then that they moved. (See 6 June)

6 June *Group update*
Although ♂924 was seen here at the 1 March power struggle (by Katy), The entire affair appears to have been a red herring, and ♂100 is still here.

3 August After looking this over, especially the fact that Katy claims to have seen ♂924 here several times in June, I looked at the records and am quite certain it's ♂762 instead, whose bands fit the bill as well as being an A1 nestling (from '82, but still...)
So, I'm returning this bird as of 1 March.

7 August 1430. Aftermath of power struggle here, which Ron noted a couple of days ago (yesterday?). Birds are scattered around over at Big Tree and up by Keep Out, as well as here. Occasional outbursts of Waka-ing, but not lots of activity or much chasing.
Most activity at the moment is up at Big Tree area:

① ♂ BlK/DB ② ♂ Ycl?/LG ③ ♀ Ycl/DG-Ycl ④ ♂ LB-Wh(?)/M ♀ DB-Ycl(w)/LB

Birds seen in Big Tree area
7 Aug 1500

① ♂ BlK/DB — 61016 (Keep Out)

② ♂ Yel?/LG — 61127 (" ")

③ ~~♂~~ ♀ Yel/DG-Yel — ♀1319 (A1)

④ ♂ LB-Wh(?)/M
DB-Y(w)/LB — 61221 (Keep Out)

⑤ ♀ Wh/LP — ♀505 (A1)

Pretty much generalized power struggle activity here, although relatively quiet. About 10 birds up in this area, of and on.

Melanerpes formicivorus

KeepOut HNHR

17 January Group update

Still no known replacement for ♀739, so last seen 10 June, gone by 20 Oct., probably.

♂1016, ♀1127, both last seen 31 March, gone by the breeding season (nest feeding) 2 May; DA → 15 Apr. ± 2 wks.

18 January ♂1016 is still here (à la census of MKH today).

And so is ♀1127, who is, by the way, a ♂!

24 March j1218, 1331 → NSAB.

No, see below → ♀739. Last seen 10 June, gone by 20 Oct → DA 6 Aug ± 2m.

Currently no breeding ♀ here!!

6 June *Group update*

♀739. Is here after all.

1987 Ronald L. Grinnell

Mark, FYI.

Joe Grinnell

Balanosphyra formicivora.

Hastings Reservation, Monterey Co., CA

4 Aug After a delightful breakfast with Jean Linsdale, I walked up Haystack Hill in search of the elusive Acorn Woodpecker at Hay Blom. I saw several (5-6) woodpeckers at a great distance, all too far away to be identified by color-band combinations. At Low Hay, 5 birds actively flycatching around the secondary roost holes SE of the granary. All split as I tried to approach, but I did see J1427 M/LBlue DBlue-Yel(cv)/DBlue-Wht

* Continuing south along Haystack Ridge, I found 4 birds harvesting and eating green acorns from oaks near the artificial granary set up by Susan Hannon (near bluebird boxes 206 and 207). This assemblage included 2 un-banded males, plus 2 Gate birds: ♂1313 Lbm-Wht(cv)/M Lbm-Brn/White and ♀1315 M mauve/Black-Org Red-Org(cv). It didn't appear that the formation of a new group here was imminent, but it might be something the young upstarts (Koenig, Stayback, Hooge, etc) would want to keep an eye on.

6 Aug Rode the new 4-wheeled field vehicle up to the Arnold Place (quite exciting! I wish Annie would have been here to enjoy it as well), arriving at 0600 PST. I was greeted by considerable wakaing, chasing, etc. from Arnold 1. After watching for 3 hours, I finally managed to figure out what was going on:

* ① The commotion seemed to be the tail end of a power struggle which has resulted in

Balanosphyra formicivora

Hastings Reservation

(6 Aug) a complete turnover of the Arnold 1 birds.

② A largeα group of males from UA2 has taken over the A1 granary. This included (minimally) ♂1140, ♂1222, ♂1225, and ♂1027. All 4 of these birds were seen well and repeatedly in the A1 granary, waking, chasing intruders, etc. Three other UA2 birds were also seen briefly, ♂1340 Blk-wht(N)/M, ♂1026 LGreen/LPink, and Juvenile (♂?) 1380 BlK-LPink/Black M /Red-DBlue.

This could have been Juv. 1402 of A1 *

③ With the UA2 ♂♂ was a group of 3 ♀♀ from Keep Out. ♀1220, ♀1330, ♀1332. All 3 seen well and repeatedly in the A1 granary.

④ ♂100 (sob!) appears to be gone. No sign of him at A1 or anywhere in the vicinity. ♀505 Wht/LPnk Wht/LPnk however, still lives. She was hanging out well North of the A1 granary (downhill side of Big Tree) with Juv 1402 DBlue-Mauve/Black Blk-wht(N)/M. No evidence of any other A1 birds around, although a ♂ without bands was hanging out with ♀505 and J1402. Apparently, ♀505 was evicted by the KO ♀♀ after the death of ♂100 and the ensuing power-struggle. No idea what has become of ♀♀ 568 + 1319 and Juvs. 1400 + 1401.

*

Melanerpes formicivorus

Lambert HNHR

17 January Group update

j1310. [redacted]. Last seen 27 July, gone by 17 Oct, DA 3 Sept. ± 1 Mo.

61019. Last seen 3 April, gone by 11 April, DA 7 Apr.

61020. This bird was at Lambert until 11 April, ~~[redacted] was pretty much gone before [redacted]~~ and then was seen at A1 on 18 Sept and 4 Nov. (he was seen at Lambert on 29 Oct). He may be back here, but we will return him to A1 as of 30 June ± 2 mon. (see Katy's notes)

61021. Was here through 5 March, then returned to A1 by 16 May, where he's stayed so far.
→ Returned 10 April ± 1 month.

1987 Walter D Koenig

Melanerpes formicivorus

Fanny Arnold HNHR

9 January 1000. Counted stores: 233. Not doing so well here - there is a fair amount of space unused.

~~Group update~~

♀1098. Last seen 27 July, gone by 20 sept.; DA → 23 Aug ± 1 mo.

1987 Walter D Koenig

Melanerpes formicivorus

Upper Arnold 2 HNHR

9 January 1000. Counted stores: Nest tree: 1275 } 3832.
"2"n tree: 2557 }

No problems here!

17 January Group update

j1224, 1341, 1342, all NSAB.

~~Unmarked SNF~~ last seen ~ May, poss dead

27 March 930. Watching. There are definitely acorns remaining here.

945. ① ♂ DB-LG/M #1225. ✓ ② ♂ M/wh-DB #1222. ✓

1000. * ③ ♀ LG-LB/LG? (not seen well). ④ ♀ M/wh?-Red R-Or(n)/DB #1226. ✓

1020. ⑤ ♂ LG-DG/LG-LB #1140. Sapsucking. ⑥ ? Yel/M Yel #681. ✓

1080. ⑦ ♂ M/LG/LP seen well (bands look new).

1115. ⑧ ♂ Or DB/M DG? × ♀ R-W(W)/LB DB-LG/M ? seen pretty well. #1225 ⑨ ♂? Bk-Wh(W)/M #1340.

seen again, better #1026 ⑨ ♂ LG/wh × ♂ M/LP-LB? ⑦ again ~~M/LP-DB~~ ♂ LG/W ~~Mass~~!

* ⑩ ♂ DG?/DB M/DG ? #1027

1220. Leaving. Lots of birds here, but I sort of have to conclude that ♀1117 is gone and that there is currently no breeding ♀ here. There are lots of ♂♂, inc. 3 that have apparently been (mistakenly) deleted from the field list.

Group update

♂♂ 1026 & 1027 both fledged in 1985 and disappeared prior to being sexed. I'm changing both of them to "moved" in August, and will add them both back ("returned") as of 1 February, ± 2 months.

16 April Ambushes last night netted only 1 bird: ♀632, which finally would appear to solve the mystery about who the breeding ♀ here is! (This bird disappeared from here during winter 85-86.

1985-1987

2a

Melanerpes formicivorus

?? Sings at WA2

1985

Feb. - Philip - [illegible]
♀ 632, 728, 780
Noted Mack [illegible]
Walt - No birds, cold storm

April - walt - ♀ or-wk/or-wk (632)
♀ Y-LB/Lp M (916)
INTRUDERS: 2 ♀♀ WB, ♀ BB M/LB
(wind tape)

1 May - Mack, Sp[illegible] about 3 F.E. Imp/A
(Walt)

3 July - ♀ red-wht/? M/red-wht (Mack) ♀632
♀ 632
Noted: First bird to show up was not 916, very unpredictable;
♀ H pink? M/C H blue/H M/H ♀916

individual sightings in June

October - Kodey ♀ wht/M (1028) VV
♀ orange/yel (632) ✓

December - 5 trips, some ultrapan, saw only ♂?

1986

January - No birds, noise via canyon.

Feb. - up at Lambert P.S., ♀♀ 916, 1028

March ♀ 1028 At Lamb.

April ♀ 916, ♀ 1028 at Lamb, 1 ♂, ult
♀ red/white VV
↳ NOTE This is not ♀632 [illegible]

A note that a subnode has called explains the out-of-place words Hank was seen here.

F.O Sapth ♀, wlb
♀ red-wgl (A1) / D blue (with eggs) (1226) v
Sand at 1140, 1222

4 Nov. Sand at 1212, 1225
♂ Degrees / Degrees M/7

13 Nov. at 1222

24 Nov. at 1212, 1225, 1681, ♀ 1340, 1226, edot of nose
at P.S. Page ♀ ygl / Degrees ygl / Degrees
Robert Worthen, 1981, Sand
Page 1
24 = at 1681, at 1140, at 77
27 = at 1681, at 1140, ♀117, at 77
Note Change
from ♀ 632 to ♀ 117
May
7 = at 681, ♀117, at 77
Sand a few Amount
1987

Melanerpes formicivorus

Upper Arnold 2 HNHR

(16 April) At that time she was a breeder! This also calls into question the status of ♂♂1026 & 1027, who are her sons, and who also returned here this winter!)

745. I'm currently mist-netting; hoping, I guess, to get ♂1140. (They have a nest here, and I'm trying to do exp. #2 here).

In any case, ♀1117 is clearly gone, (last seen 7 May '86, gone by

900. I just got amazingly lucky and caught ♂1140, as desired!

920. watching. ① ♂ DB-La/M #1225. ② ♀ DP/M ?? (~~[illegible]~~) } Who is this bird?
③ ♂ Mv/Wh #1222. ④ ♀ BP-Wh/M ~~[illegible]~~?

⑤ ♂ DB-W(w)/M #1340 ⑥ ♀ BP-Wh / BP-Wh #632.
② ♀ Yel-LB/Mv? Yel-LB/M ?(Bands are old). ♀916? I bet it is. But this is a Lenbur Bird!!

1030. Over at the nest, nobody seems to be here. Is everything OK? Someone better watch here later today, I think.

This group needs serious reorganization. First off,

Group Update

e back) ♀1117. last seen 7 May 1986, gone by ~~[illegible]~~ 20 Sept (?)
→D.A. 14 July ± 2 months

♀632. Returned! Here by ~ 15 March (don't really know when).

1455. ♂ in hole. No problem? Cindy watching, as am I. Both trying to confirm presence of ♂681.

19 April 1100. ♂1140 was released back into the group today. Hence, this bird (unfortunately of uncertain status) was gone from 16-19 April (3 days).

♀632, ♀1117

♀632	Red-White	/ Red-White
	M	/ Red-White
♀1117	Red	/ LPink
	Orange	/ LPink

The history here is a bit murky (see p. 2a); as far as I can tell, ♀632 was definitely here through October 198 Most likely, she disappeared late in the winter (e.g. ~March '86). In April 1986, ♀1117 appears to have moved in; this was consistent with ♂1140 (her son) being conspicuous at the nest at several of the watches.

The ♀ was conspicuous at the nest in May; following this noone saw any ♀♀ here until I caught ♀632 here.

Assuming the above is more or less correct, the status of the birds here now is questionable. ♂681 is a breeder. ♂1140, however, is the son of ♀632 and thus is (presumably) either still or once again a helper. The 1st yr ♂♂, however, may or may not be "breeders", depending on if ♀1117 was really their mother. (This includes ♂1222, ♂1225, and ♀1340.)

6 June I have now decided that, the evidence for ♀1117 having ever been here being so poor, and, given that it just doesn't make sense, I ~~still~~ now believe that ♀1117 was misidentified, and that ♀632 was here all along.

Melanerpes formicivorus

Lower Arnold 2 HNHR

9 January 945. Counted stores: Burned tree 1281 } 1697.
Back area: 416 }

These guys are doing very well. The burned tree has lots of new holes, and is quite full.

17 January Group update
~~♀♀♂♂. Not seen~~ j1235. NSAB.

28 January 1145. Watching. Cool, cloudy out. Zilch. ? There are birds and stores here

24 March *Group update* Nothing today after all!

16 April 1500. Checked The hole, but nothing yet (I don't think; it's actually pretty deep and I couldn't quite reach The bottom).

23 May 1520. Opened new hole (2nd nest: 1st fell, see MTS notes): it has 4 incubated eggs.

6 June *Group update*
~~♀ub. Not seen since 17 May +86 when she fed at The nest.~~
~~Gone by 18 Sept (Katy)~~ →

♀ub. Did not feed at the nest on 17 May '86; Katy just saw one near The nest. I will assume she was an intruder and that she never was a group member.

♀1207. Last seen 10 Oct '86 (Ambushed), gone by 15 Nov,
→DA 22 Oct ± 3 wks.

♂1238. Ditto.

3 August ♀1208. Found dead, stuck in a hole, on 21 June (see MTS notes), had been dead for some time. Had been seen feeding on 30 May → Died ~ 3 June ± 1 wk. Apparently not replaced yet.

Melanerpes formicivorus

Bianca HNHR

9 January 930. Counted stores: 276. Tree is not very full. There are no acorns over in the old area, however.

17 January Group update
J1231, 1233 → NSAB

28 January 1000. Watching ~~with~~ Janis. Lots of acorns still here.

1100. Nothing. Moved. Birds are up in the forest by Black Oak. A Carrick! Something up, Maybe? ① ♂ M/Da/wh # 1180. ② ♀ LB/Red # 1060.

1125. Birds keep flying off toward UA2.?? Bird over in the old (fallen) granary, ♂ Red/Blue ?(?1232?).

1200. Birds moved; all cloudy and quiet. Leaving. Not sure what's happening here.

1300. Back up at the forest area in a blind.

1330. Back at the granary ③ ♂ Red-DB/DB-Red # 1232.

1 March 1245. Up at the top of the field (by Black Oak) is ♂ Red-DB/DB-Red # 1232. I only count 215 acorns in the granary here.

24 March *Group update*
♀♀ 1058, 1059. Last seen 27 July, gone by 29 Oct, →
DA 11 Sept ± 1 month.

6 June

W.D. Koenig
1988

Hastings Reservation
Melanerpes formicivorous

Melanerpes formicivorus

Chongo HNHR

27 March 1230. Checked the low nest hole in the Blue Oak - it looks perfect, with nice dry woodchips on the bottom and everything.

These birds, whoever they are, have lots of acorns remaining.

30 March Jane, censusing up here, actually saw some birds! These included a NOBA ♀, ♂1110, and ♂1265 (the latter an '86 baby not seen since banding).

There are lots of acorns here, so it's nice that a group has finally surfaced.

6 April 830. No sign of anyone in any holes here, despite lots of acorns. Both holes in the granary look very nice.

12 April Watched roosting here and saw a bird, but I have no idea where he/she went!

24 April 1300. Bird in hole in old Buckeye hole across from Chongo! (No! Buckeye Annex) Could this be it? Bird flew back toward Chongo...

1500. Opened hole. Zilch! But in good shape.

30 April 1100. Bird in hole: 1 egg! Fresh, marked by me. Great! Now the only real problem: is this really Chongo's nest, or is it Buckeye's 2nd nest?

(eye nest it!)

6 May 1100. Checked nest: 5 eggs. Bird in hole.

When birds flush from here they fly off up the canyon, not over toward Buckeye. Hence I don't think they're Buckeye birds. But it's still not clear that they're Chongo birds either...

24 May Bad news - it isn't their nest after all. Instead, Chongo had a nest elsewhere and has already fledged young.

13 June *Group Update*

Melanerpes formicivorus

Chongo HLNHR

(13 June) 31265. Possibly here all along; became a breeder when 9872 was replaced by ub99 in March 1987. He also may have left and then returned when he could inherit.

1900. After finding a hole in a dead live oak that had 4+ birds in it last evening about roosting time, I returned planning an ambush, only to be foiled by the existence of a nest - presumably their 2nd (they still have lots of acorns here). It had 4 babies ~5 days old + 1 unhatched egg, small but developed (possibly died pipping).

Thus, the apparent clutch size for the 2nd nest here is 5. Now watching roosting.

2000. At least 3 fledglings here for sure; may be roosting in a tree up above the granary.

18 June 1215. Watching nest; set up for ambush.

1315. Got an ub ♀! Now #1606. Bird is molting!

1330. Leaving. 1 a day is probably a good pace.

19 June 1000. Back for a 2nd round.

1200. Giving up for now. (ub ♀ came, but I missed here)

1315. Back again.

1400. Got her! Now #1607. Put back in the hole....

22 June 1130. Babies still here and alive and screaming!

26 June 1400. Banded the 2 remaining babies here; not very old yet! Now #1617-1618. This Live Oak where the nest is is an ant tree, by the way. Not a particularly bad one, but one nonetheless.

Melanerpes formicivorus

Buckeye HNHR

12 March *Group Update*

♀1351. Last ~~seen 30 Nov '87~~, ~~first not seen~~ reported seen by Connie on 10 Nov but her notes suggest she actually saw ♂1395 instead. Before that, this bird was last seen ~~by at banding~~, ~~30 Oct 1985~~ on 5 July 1987 (? not sure by whom). First not seen by Maria Farrara on 30 Aug. '87
→D.A. 2 Aug. ± 1 month.

♂663. Back again! Seen by Connie on 7 March '88!

13 June *Group Update*

♂1397. Moved to Buckeye Annex. Was seen here by Connie on 7 March, had a nest at Buck Annex ~~by~~ by 24 April (note that he budded off and returned to Buckeye off and on all spring.) So → Moved about 1 April ± 2 weeks.

♂♂1398, 1399. Both last seen 6 Jan 1988, gone by 7 March
→D.A. 6 Feb. ± 1 month.

♂663. We will assume he's a breeder!

23 July ♂1397. Returned home as a helper following his own nest failure about 1 June.

♂♂1398, 1399. Returned home between 13 June and 10 July → Returned 27 June ± 2 wks.

Melanerpes formicivorus

Buckeye Annex HNHR

24 May For prior nesting record of this new group, which has annexed the northern section of Buckeye, see Chongo. It turns out that it is a new group composed of a Buckeye ♂ and an unbanded ♀, previously seen over at Buckeye. In any case, they now have babies and (at 1540) I'm set up to try and catch the ♀ at the nest.

25 May 1105. Up here trying again for the ♀.

1125. ♂ BlK/Or-Lg #1397? came to hole, didn't feed.

1230. Got her! Now #1572. ↖ I guess; it certainly doesn't fit anyone else!

13 June Group Update*

♂1397. Founded group (with nb ♀ now ♀1572) about 1 April.

Both birds may still be here, although following the failure of the nest here ♂1397 started feeding at Buckeye.

23 July *Group Update*

♂1397 left (returned home) about 1 June.

Melanerpes formicivorus

Plaque HNHR

18 January *Group update*

♂1404. Last seen (Stanback) on 28 August '87, gone by 22 Oct '87 (Connie) → Disappeared abt 25 Sept ± 1 month.

9 April 710. Watching with the ambusher set up, trying to catch ♂521 or ♂721.

807. ♂1442 went in, finally.

940. Still in. I have to go for now and try again later.

1330. Back watching. Bird was in the hole. Net up in Plaque tree also.

1530. Giving up. Put up a tennis-ball ambush (very inconspicuous) and left.

10 April 1000. Back again to try. (or "back to try again", as the case may be).

1020. ♂ left; ♀973 went in. Just a matter of time...

1125. Too hot here in sun. Will try again (yet again) later.

1600. And again, I'm back.

1700. Got ♂521! Weight 91gm! He's mine.

13 April 1700. Let him go! Bird in hole: 5 eggs (I marked the 5th). Everything looks fine; now watching. (Bird with green dots on his forehead.)

Seen incubating: ♀973; ♂721; ♂1441 [♂DB/Blk-Wht (leg?)]; ♂1403 (for sure)

1955. Someone zipped right in, apparently for the night. No sign of ♂521 at the nest this evening.

14 April 538. I get to begin the marathon watches here on this rainy(!) morning, going until 900.

830. The helper ♂♂ (1403, 1441, 1442) sure seem to be doing a

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Plague HNHR

(14 April) relatively large proportion of incubation here! Also, I've seen no sign at all of ♀1443, who's probably gone.

* → Judy reports ♂521 having been in the hole for ~5 min later today! Otherwise, people have seen him at, but not go in, the hole.

15 April 1200. My turn to watch. Again, people report having seen (♂521) him go to, but not in, The hole.

1226. ♀ in hole. ♂521 came, stuck his head in several times; left w/o entering.

1315. Checked hole: still 5 eggs. Measured #5: 25.0 × 18.8 mm.

1424. Same as at 1226.

16 April 910. Back again. ♂512 still hasn't gone in again except for the one time on 14 April.

* → 1043 - 1046. ♀ in hole; ♂521 came, entered, spent most of the 3 minutes he was inside poking his head in and out. ♀ did not look out during this time, she was presumably on the eggs. ♂521 then left at 1046.

17 April 1215. Well, bad news. Yesterday afternoon ♂521 started going into the nest, and eventually tossed 2 eggs. Watches were continued this morning, by which time the babies had hatched. ♂521 was seen going in, I think, by Jane K., but nothing of interest was noted. Just now Judy finished her watch and I checked the nest, finding 2 babies and no eggs. So what happened to the 5th egg?

In any case, it appears to be a repeat of last year: ♂521 again tossed 2 eggs right at hatching - ~~then~~ but did not destroy the nest (although the disappearance of the 5th baby/egg does raise the possibility that he still might do so).

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Plaque HNHR

(17 April) My guess is that he probably did toss a 3rd egg, but who knows? Unfortunately we don't know exactly when the eggs hatched, or which might help. At least there is some nest remaining, and Stanback will check it again later today.

24 May Note that there appears to be no sign of ♂721, and in fact there hasn't been for quite some time. So ♂521 may have tossed eggs even though he was the only breeding ♂ in the group!

Oops - maybe not. I have my field list marked as having seen him on 13 April. Guess I'll have to look and go through everyone's records.

13 June *Group Update*

♂721. Last seen for sure on 1 Feb., not seen by Connie on 29 Feb. There is some possibility this bird was still here in April, as I thought I saw him (with no supporting evidence) on the 13th, and Jane reported seeing him on the 17th! But he was, in fact, conspicuously scarce during our vigil here. I assumed he was here because things went fine after I removed ♂521 (including roosting). But in fact I don't think he was! Until we hear something definitive from Jane, I will have him disappear in Feb → 15 Feb ± 2 wks.

Note that this would mean there was only 1 breeding ♂ (521) here for my "control"!

♀1493. Last seen 16 Jan, gone by 1 Feb → D.A. 24 Jan ± 1 wk.

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Y HNHR

16 January *Group update*

♂1428. Found dead (very fresh) by Jim Griffin on 26 Dec. '87 down by The Pump (!) No obvious cause of death; bad weather was stormy, however.

♀1350. Has moved to Knol Set group. Has been seen there regularly by Connie and also seen there by Stanback as early as 18 Sept. The group only formed here about 2 August, so we'll just have ♀1350 be one of the founders.

12 March *Group update*

♀1450. Banded 19 Nov. 87, last seen by Connie 23 Nov. '87, first not seen 3 Dec. '87 → D.A. 28 Nov. '87.

Melanerpes formicivorus

Knoll Set HNHR

16 January *Group update*
This group assumed to have been founded ~2 Aug. '87. ♀1350 made one of the founders.

28 January 2000. Ambushing at the Gate field ravine hole (opened Y nest-hole on side of School Hill) we caught 6 birds This evening, including ♂1303, ♂1301, ♀1350, one of the other banded ♀♀, and 2 unbanded ♀♀, now ♀1460 & 1461. (♀1445) → That should pretty well take care of the group, I would hope!

30 January *Group update*
Add the 2 ub ♀♀, now #1460 and 1461. We will assume that they have also been here since August (as ub), but it's entirely possible that they got added later on (although at least one was there in November).

12 March Connie says maybe an ub ♂ here!?

20 April 1030. Opened new hole in sycamore: in good shape, but empty.

1 May 1030. Bird in hole(?) in dead trunk?
1145. Oui! 9 eggs! (The one I marked #9 has a small dent in it; all are fresh.)

5 May 1530. Well! Something neat happened here but we don't know what. It seemed strange that I wouldn't see a bird in the hole here when I'd pass. I finally checked it and there are only 4 eggs left, cold and, presumably, abandoned. (The dented #9 was not one of them.)

9 May ♀1461 up on School Hill; see School Hill notes.

13 June *Group Update*
♀1444. Last seen ~~[illegible]~~ by Connie on 11 Nov. '87, 19 June.

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Knoll Set HNHR

(13 June) seems to have disappeared by at least 3 Dec. →
D.A. 18 Nov. ± 2 wks.

♀1461. This bird was last seen here on 29 Jan 1988, when we let her go after catching her. She was never seen there again, but was definitely up on School Hill causing a ruckus on 9 May →
left group ~ 1 March ± 1 month.

23 July *Group Update*

61303. Last seen 2 March (Connie), gone by 7 May
→ D.A 4 April ± 1 month.

♀♀1460. Same → D.A. 4 April ± 1 month.

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Pump HNHR

16 January *Group update*
Birds have been here since at least 29 Sept (MTS). I'll have the group founded on 0 Sept. ± 1 month. There are at least 3 birds, 2♂♂ and 1♀, all unbanded, and very possibly a 2nd ub ♀ also.

12 March *Group Update*
♂5289. Now appears that only a pair remains here. This bird last seen 6 Feb., gone by 23 Feb. → DA 15 Feb ± 1 wk.

13 June No evidence of birds here for some time (since late April anyway). Probably defunct.

23 July Birds here abandoned ~~MS April~~ 1 April ± 2 wks. No sign of a group here now.

Melanerpes formicivorus

Refute! HNHR

12 March *Group update*
No sign of birds here, and there hasn't been any for some time. Both Abandoned ~ 31 Oct ± 2 months.

1 May There is a nest in The Central Canyon which may be refute!, or Pump, or a new group altogether!

13 June Well, the group is new (Central Canyon) but I'm going to assume that it consists of the 2 birds we'd assumed were "Refute!" birds!

Melanerpes formicivorus

1500 HNHR

16 January *Group Update*
♀1329 is back! Seen here beginning on 11-15-87 (Connie). Apparently not there 17 Sept (MTS), although Cindy saw this bird visiting here on 29 March '87 and we had few census in between, so she may have been here earlier.
→ Returned 16 Oct ± 1 month.

6 April 900. Checked the main hole: empty. No sign of birds in any other holes either.

7 April 710. Watching hole from blind. Noone inside.
730. Someone is giving an occasional Garrick from the 2° granary.
740. ♂ Yel-Grn #297 now karrit-ing in 2° granary.
744. Now he's Garricking softly. Why?
748. Still (gently) garricking; he even drilled briefly once!
752. ♀ M/ ♯1329.
758. ♂ just flew to other side of road. Going to check; nothing happening here.
806. Found it! It's right above the road, in a very rotten limb.
1030. Climbed to the hole, which is about 2' deep. I cut the entire top off to see what was in it: nothing yet. But what a hole! It's tempting to knock the whole thing down.

13 June *Group Update*
♀1274. Last seen 10 Feb, gone by 3 March → DA 24 Feb ± 2wks

Melanerpes formicivorus

1800 HNHR

6 April 915. Noone in any holes here.

12 April 1450. ♀ in traditional nest hole.

13 June *Cavity update*

♂1438. Last seen 4 March, gone by the nesting attempt on or about 25 April (when they hatched).
→ DA 30 March ± 2 wks.

♀1456. Caught and banded on 22 Jan. but never seen again; gone by 29 Jan. → D.A. 25 Jan.

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Horsetail HNHR

30 March There is a group here, apparently an unbanded pair. They even have at least a few acorns stored up in the granary.

Tonight we ambushed at a new hole in the (artificial) granary which has been under construction at least the last several days and caught an NOBA ♂, now ♂1469.

Given the presence of an ub pair here last fall, I guess we have to assume these to be the same birds, and that they've been around - maintaining a low profile - all winter. My own guess is that these are the 2 ub birds Connie kept seeing down by the gate, assuming they were Gate birds.

1988 Walter D Koenig

Melanerpes formicivorus

Hay-Blom HNHR

16 January *Group update*
♂1084 last seen for sure 27 May '87 by Cindy, gone by 11 November. Mark possibly saw this bird on 10 Oct. so, we'll have him Dis. abt 20 Oct ± 3 wks.

8 February *Group update*
81084. Still there after all!

23 July Missed the nest here; adding 2 ub juvs (but they may have more).

Melanerpes formicivorus

Lower Haystack HNHR

7 April 1315. 4 eggs in hole. Ambush set up at (alternate) roost hole. (These birds are due to hatch the 14th)

8 April 600. Much to my chagrin, an ambush at a new hole over ~~in~~ above the forest netted 2 birds: ♀1266 and the helper ♂1427! Unless someone else emerges, this means I'll have to come back and ambush at the nest to try and get a ♂.

820. In blind, with an ambusher set up at the hole (still 4 eggs).

1100. Nobody came! These birds are wary, apparently. I moved the ambusher to the other side of the hole (where it's less obvious) but left it set up. Hopefully I'll get a chance to try again later today.

1600. Back up to try again.

1645. The birds are around - what's wrong with them? I finally moved the blind further up the hill. But this doesn't make sense...

1720. ♂ BlkM # 1046 up in the tree (not the nest tree).

1740. Still 4 (cold) eggs in the hole. I took the ambusher down and gave up.

9 April 1600. Noone in hole? Amazingly enough, I think it's possible they've abandoned the nest. Wierd - I didn't do that much here. Now watching.

1700. Wrong! ♂ in hole. Trades off with a ♀; I went up and set a tennis ball ambush.

1815. Still zilch. ♂ M/wh - #1146 in upper tree.

10 April 500. Finally! I ambushed at the nest after 2 birds went in last night. Climbing up in the dark, I took the one up by the entrance, who turned out to be ♂1155, and left the one

Melanerpes formicivorus

Lower Haystack HNHR

(10 April) who was on the eggs (ID unknown). I then kept the plug in for 10 minutes before pulling it. At that point the 2nd bird flew out immediately, but it was still dark so I retreated before anyone noticed me.

So - I now have ♂1155 (wt 78g) who I'll hold on to at least until tomorrow afternoon. Furthermore, unless the 2nd bird was so freaked out by his "near miss" that he won't go back, there should be no problem with the remaining birds.

11 April 1830. Let ♂1155 go: I had him for 37.5 hrs. Hopefully things are OK up here, but: there was noone in the

* → hole and there are only 3 eggs left in the nest! (Note, however, that I last checked the eggs on 8 April, so there's been plenty of time, even before I caught the bird, for something to happen. (Maybe I broke one when some DAP fell down the hole?)

1900. Someone roosted in the nest! We're all set!

12 April 600. Beginning our 3-day marathon watch.

612. ♂ left; ♀1266 took over.

633. ♂1146 enters.

740. Checked nest: 3 eggs.

* 918.! ♂1155 came with little ceremony and spent 8 minutes in the nest, being relieved by ♂1146. He did not toss an egg. This one could be easy.

945. Checked nest: everything's just fine.

For the rest of the day: Jane R. didn't see ♂1155; Jane K. saw him but he didn't go in the hole, and Judy saw him

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Lower Haystack HOTHR

(12 April) enter the hole once for ~30 seconds. Thus, we have 2 visits by him today. Looks good! We may even be able to quit continuous watching after tomorrow.

13 April 620. Starting the day's watches. It's foggy out!

*→ 621. ♂1155 in hole - looking out! He looks out for ~4 min and then leaves (nothing in bill) at 625.

643. ♀1266, ♂1146 also incubating.

743. ♂1427 in tree.

750. Wow. It's really raining out there.

915. Morgan taking over. Checked nest: 3 eggs.

15 April The bird (♂1155) was going in regularly yesterday; see Judy's watches for details. Judy also says she saw him go in once on the evening of the 13th.

23 July *Group Update*

♂1427. Fed some here, but now at Blowtwo. Probably moved ~11 June during a power struggle there!

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Central Canyon HNHR

1 May This group was discovered a week or so ago when Mark and Shorty saw a bird going in a hole in the dead Valley Oak up the Central Canyon. Sure enough, they had babies (3), about 12 days old today. Other important features: the birds are unbanded, hence not Laguna, and they have some acorns stored in the bark of the tree, hence they've been there all winter (!)

In any case, this evening I went and caught a ♀ at the nest, so now someone here, at least, is banded. Watching a bit, they (2 only) seem to fly up over to the Hastings side of Blonknoll, hence they don't appear to be Refuge I birds either. Amazing!

7 May Tried to catch the ♂ for about an hour this afternoon, but only the ♀ I caught on the 1st fed. However, she did fly off a couple of times to the 2nd canyon, so it's possible that these may be birds we originally (= last fall) called Refuge I birds ~~after~~ after all.

8 May 1030. Set up to try for the ♂ again.

1230. The ♂ (I think only 1) came several times, but the birds don't tend to go in anymore, or they stay only a very short time. I'll try ambushing in the morning.

9 May 500. Got him! He's now ♂1523. I also banded the babies as #1524-1526, and then put them all back in the hole (blocking it up for 5 min) before releasing the ♂.

Most likely, this is everyone in this group (it's just a pair).

13 June *Group update*

I'm going to assume that the putative "Refuge I" birds ♂ were this

Melanerpes formicivorus

Central Canyon HNHR

(13 June) group all winter (they have some stores and must have been here!)

Melanerpes formicivorus

Blomone HNHR

16 January *Group update*

According to Mark's notes (27 Sept. '87) we probably missed a late nest here (seems odd and unlikely, but it does explain the unbanded bird[s] here). In any case, the ub ♀ that is now here (♀5291) will be assumed to have originated in this way. There may also be an ub ♂ here too...

26 January 800. 2 ambushes here last night and this morning netted 6 birds (!); in the low, opened hole toward Far Knoll we got 2 ub ♀♀ (1 1st yr, 1 adult I think) and ♂1063 (?) from Dark Hollow, and here in the granary 1 ub ♀, ♂1167 and ♀1325. Wow.

30 January *Group Update* (on the heels of the 26 Jan. ambushes)

(1) ♂1063. Formerly of Dark Hollow, left there in March or April 1987. Wait!

Here's my hypothesis: There are 2 groups here. One, consisting of ♂1167, ♀1325, and the juv. ♀ (now 1459) is Blomone (these are the birds caught in the granary). However! I don't think we missed a nest here.

New Group → The second, which we will call Laguna, formed during the power struggle on 24 Sept, consists of ♂1063 and 2 ♀♀, now #1457 and 1458.

Now-about that juv. ♀ at Blomone. ~~Mark saw~~ There was a nest abandoned here on 25 June. On 27 June Mark saw an extra bird here. On 3 July he saw a juv. on Blomone Knoll. On 17 Aug. he saw a 3rd bird, "chased a little." On 31 Aug. he sees a NOBA juv. here, heading toward OK Corral. Finally a power struggle on 24 Sept.; lots of ub birds. On 27 Sept. birds

Melanerpes formicivorus

Blomore HNHR

(30 January) seen with an ub juv. who was molting.

It sounds to me like this baby came and joined them; I don't know how we could have missed her otherwise unless we missed an early nest here (April?). Seems unlikely. On the other hand, I don't quite know why they'd accept a strange juv. Maybe shes from 1800? (and thus related to ♀1325?).

25 April 930. Cleared out several Starling nests here. Also, some indication that these birds have the laguna area again. See laguna notes.

13 June *Group Update*

With 8 eggs in a nest here, we will let ♀1459 be a breeder.

By the way, our current best guess is that ♀1459 is a sibling of ♀1325, both from 1800; presumably from the nest we missed.

Melanerpes formicivorus

Laguna Conejo

HNHR

30 January — Just decided that there's a new group here in proximity to Blomone, based on the 25-26 Jan. ambush (see Blomone notes). This group consists of ♂1063 and 2 ♀♀ (now 1457 and 1458), and I presume it formed during the 24 Sept. 1987 power struggle (maybe this caused the power struggle?).

25 April — 930. 2 birds up at Far Knoll (along with a Lewis Woodpecker!) flew back to Blomone when flushed. Does this mean this group is defunct? No nest found yet... and it sounded as though the birds were greeted when they arrived...

24 May — Mark found the nest here - they moved over by the road and have it in the Blue Oak, very close to Blomone's nest and granary!

Melanerpes formicivorus

Blomtwo HNHR

27 January 730. A morning ambush in the high hole here (unopened) yielded only ♂1054. He went off and greeted one other bird when I released him; I think there are only 2 birds here.

1 May 1045. 2 birds in hole! Could be the nest. (Hole is higher one in the non-granary Valley Oak toward the Pond from the granary).

12 May 1630. Bird in hole again, finally.

14 May Opened the hole: zero.

16 July 620. At least 3 birds in the granary here. Maybe from some other group?

23 July *Group update*
New ♂ (♂1427) here as of 11 June power struggle!

Melanerpes formicivorus

Blowthree HNHR

16 January *Group update*

♂1262. Last seen 22 Sept (Mark), gone by 21 Oct. (Connie).
→ D.A. 8 Oct ± 2 wks.

♀1119. Won the 26 Aug. power struggle, but then seems to have been gone already by 10 Oct. (Mark's notes)
D.A → 18 Sept. ± 3 wks. She's been replaced by an unb ♀.

2 February 2000. An ambush tonight in the large Blue Oak near the path ½-way to Blowtwo yielded 2 ♂♂(!): ♂989 and his father (not seen for well over a year), ♂769. But still no ♀!

11 March 2000. Another ambush in one of the trees between the above Blue Oak and the granary netted the same 2 birds: ♂769 and ♂989! Piss me off!

12 March *Group update*

♂769. Returned. Caught 2 Feb and 11 March; Connie saw 3 birds (2 ♂♂) as early as 21 Oct '87! ~~Bbbb~~
Better yet: Stanback saw a bird, almost certainly this ♂, on 26 Aug '87! Hence, we'll have this bird return ~ 1 Aug. 1987. It seems unlikely he was here much earlier.

25 April 1000. Opened the new hole in The Bend tree ( ) near the granary: nothing yet, but it's in good shape.

29 April 1020. Birds still working on the hole, which is still empty.

1 May 1100. Bird in hole, but still no eggs.

4 May 1830. Still empty, but They're still working on it!

8 May 1300. Still empty! Hope They aren't pulling a fast one on us!

10 May Watched roosting tonight. I have no idea where they went, but there were definitely still 3 birds, and they all went together, wherever it was!

Melanerpes formicivorus

Blomtree HNHR

12 May 1640. Still zilch in the hole.

18 May 1045. Finally! Bird in hole! 4 eggs, fresh!
I'd seen 2 birds roost here last night, so I could probably nab a ♂ on the nest here.

19 May 1900. Still 4 eggs.
1940. I think only 1 bird roosted in the nest, but a 2nd was quite interested and entered several times before flying off.

20 May 530. Both ♂♂ were in the hole; ♂769 down on the eggs and ♂989 up off them. I took them both back to bleed, then returned ♂989 to the hole where I plugged him in for 10 minutes before I opened it and left. ♂769 is now temporarily removed. *

Both ♂♂ had nice brood patches.

(*Bird released) 22 May Mark S. checked the nest (4 eggs) and released ♂769 at 1500 after marking his head with red dots. (He was held for 2 nights & a total of 58 hrs).

23 May Checked the nest at 1800 - still 4 eggs, and a bird in the hole, so all looks OK.

24 May Started continuous watching at 730 with Jane Kidd.
I'm now here 1030-1330. So far no sign of ♂769 at nest.
1115. ♂989 here to incubate. 1157. Left.
1211. ♀NOBA enters. 1212. ♂989 comes, ♀NOBA leaves, ♂ enters.
1309. ♂ leaves.
1320. ♂989 enters. 1332. Jane K. back to take over.
Well, there ended up being some interesting action this evening during Judy's watch (see her notes for details). ♂769 came on twice, entering the hole for several minutes both times. The first time nothing odd happened, but the

Melanerpes formicivorus

Blondhurst HNHR

(24 May) second time he ended up whizzing out of the hole - possibly with something (he was not seen well) apparently chased by the ♀! Later he came again but was kept from the hole by the ♀, suggesting the possibility that he'd been bad.

So, tomorrow I'll check, but in any case it's of interest to note 1) how active ♂989 is, with ♂769 "out of the picture," and 2) how disruptive of the social fabric of the group pulling ♂769 out for only 2 days has been.

25 May Again a day of complete watches, starting ~5.
915. Checked the hole: still 4 eggs!

26 May 1140. Still 4 eggs and bird incubating. Halilula!

27 May 930. Still 4 eggs, not hatched yet.

2 June Mark's findings while I was gone:
28 May 830. Bird in hole. No sounds from nest.
30 May 900. Checked hole. 1 egg missing. Remaining 3 cold, dent in one of them. Also 3 tail feathers in hole.!

12 July 1120. Checked new nest (set up blind): only 1 baby left. (banded Blue).

13 July 700. Waiting with ambush set up for ♀. (Baby is still there.)
755. ①♂989 fed (acorn bits).
845. ♀ in vicinity; no sign of ♂769 so far, however.
900. Guess I have to quit for now.

15 July 1850. Trying again; baby is still alive.
1846. ♂989 fed.

16 July 630. Back again for more. 710. ♂989 and ♀NOBA in granary.
830. Finally checked nest: the baby was, as feared, dead.
Leaving. No sign of ♂769!!

Melanerpes formicivorus

Gazebo HNHR

15 May 1715. Found a bird in a new hole in the tree with the low holes: presumably a 2nd nest!

16 May 1500. Well no. But they're working on it!

23 July *Group update*

01103, 1363. Last seen 8 March (by Connie), first not seen 2 April, D.A. → 20 ~~April~~ March ± 1 week.

Melanerpes formicivorus

Prairie Home Field HNHR

22 April Found a hole in a big Valley Oak fairly far up the draw with youngish babies. Hole needs to be opened, but can be climbed to pretty easily.

1 May 1345. Opened the nest (which is an ant tree, but not a bad one), finding 4 babies, at least 20-22 days old - they're ready to band!

4 May 1700. Banded the 4 babies, who are well over 20 days old, big and healthy! (#1505-1508).

These birds have lots of stored acorns remaining, by the way.

12 June 1030. Walked up here for the 1st time since May finding a bird in the hole along with 3 hatchlings and 2 opaque, unhatched eggs. So, hatching date is today, clutch size was 5, and the FFED was ~ 29 May.

They should be banded on or about 3 July.

Walter D. Koenig

Melanerpes formicivorus

CVGrande HNHR

16 January *Group update* 13 Sept.

♂943. Not seen since ~~Dec~~ (Stanback), gone by 11 Oct. (MTS) → DA. 28 Sept ± 2 wks

j1431. Last seen 7 July, gone by 24 August (MTS). →DA 31 July ± 3 wks.

j1432, 1434. Both last seen 7 Aug (by Philip?). Gone by 24 August → DA 15 Aug ± 1 wks.

12 March ♂1285. Last seen 14 Dec. '87, gone by 16 Jan. → DA 31 Dec ± 2 wks

♂♀1438. Same. (#1433)

13 June *Group update*

♀♂1433. Reincarnate: this bird is here.

♀1284. Last seen 20 Feb., gone by the 1st nest here at about 9 April. → DA. 17 March ± 3 weeks.

Melanerpes formicivorus

Murf HNHR

12 March *Group Update*

Connie reports a 2nd ♀ here, but not sure who she is or what's up.

Well, we're pretty sure its ♀1143, ♀1144's sister. She was first seen there by Connie on 10 Dec., and was seen on 11 March '88. She was not seen by Connie on 9 Oct ● or 18 Nov. → Moved here 29 Nov ± 2 wks.

5 April 1500. With 8 eggs, I'm trying to catch a ♀ here for a temporary removal. Ambusher is set up and I'm watching from the blind.

1630. Caught ♂967! Taking him home.

1900. Well, several ♂♂ came to the hole at dusk, and I even went in, but it would appear as though nobody stayed there. Hence, the nest goes empty tonight. I think this means that I will hold ♂967 1 more day - hopefully long enough for everyone here to realize he's gone, but with luck not so long that the nest fails - and let him go ~~on~~ in the afternoon of 7 April.

6 April 1245. Noone in the hole, but I climbed it and all 8 eggs are fine. They seemed warm, though not "freshly" warm as though someone had been in the hole up to a few minutes earlier. One of the 8 eggs is infertile, but the other 7 are opaque.

Jane will watch roosting here tonight; the experiment continues as per the above plans. (♂967 is fine).

1450. Bird in hole! Birds are still incubating.

Melanerpes formicivorus

Murf HNHR

(6 April) Good news! Jane reports that a bird spent the night in the nest this evening, after 2 birds (the remaining ♂♂?) traded off several times. Thus, the nest is still going (the birds will compensate for the missing ♂) and they (the birds) presumably have figured out that ♂967 is gone. This sets us up nicely for his release tomorrow.

7 April 1600. Let ♂967 go with red dots on his forehead and a green left wing patch! He was thus removed almost exactly 2 days.

1605. Bird in hole. Going to check it.

1610. Still 8 eggs. ♂967 back in the area, karrit-ing. Watching.

1620. Several birds in the area now.

1629. ♂966 enters hole.

1900. Very little to-do over roosting - a ♂ (not ♂967) came, entered, and that was it.

Query: why have I still not seen a ♀ come to the nest?

8 April Jane K. watched ~~530-1000~~ 530-900, followed by Judy ~~900-1500~~ 900-1200. Neither appear to have seen ♂967 come to the nest.

1215. I'm now here until 1500.

1300. ♂1338 came and took over from ♂966.

1415. Still these 2 ♂♂ trading off; no ♀♀ at all.

1450. Going to check the nest. Jane R. watching from 1500 to 1800.

1500. Babies are hatching: 2 hatchlings, 6 eggs in nest.

No sign of ♂967 by evening.

Melanerpes formicivorus

Murf HNHR

9 April Judy did the early watch. It's now 920 and I'm watching until 1200.

1008. Both ♀♀ finally came: ♀ BlK-WH/DK #1144 and a 2nd, presumably ♀1143.

1115. I'm not so sure: she looks ♀ LG-DG/M? to me. Is this ♀1143 or someone else? I think it's someone else.

* 1125. ♂967 was here, a few branches away from the hole.

1130. ♀ WH/LG-DG/ : I think she may be ♀ WH/M LG-DG/(missing?) (Yes)

This is definitely not ♀1143.

1200. Jane taking over, then Judy again to dusk.

1211. This time she looked ♀ LG-DG/M

10 April 1215. Taking over from Morgan. Nothing has happened yet, apparently.

1300. The mystery ♀ is missing a band on her left leg: ♀ LG-DG. She also definitely has a M band on her right leg (but I'm not sure where or with what 3rd band).

I'm going to "switch" ♀911 for ♀1143, who apparently was never here. Are ♀911 and ♀1144 unrelated? Apparently yes.

1445. This time I got it for sure: ♀ LG-DG/M #911 ♀ LG-DG

1500. Jane K. doing the final watch. Mark is presumably coming over to weigh the babies.

The mystery bird is almost certainly ♀911, a 1983 nestling from Blomturee. Very strange!

12 April Mark reports having seen ♂967 feeding at the nest! Whoopee!

26 May 1510. Set up at the 2nd nest, which I've just checked and where there are 8 eggs, to catch one of the ♀♀.

1730. I give up.! Just as I said that, ♂1338 went in, so I guess I'll leave it and set an ambush at nesthole #1.

Melanerpes formicivorus

Murf HNHR

27 May 715. Back watching hole, with ambush set. ♂ in hole now.

812. ♂966 came.

915. Giving up for now. So far only ♂966 and ♂1338 have incubated.

1345. Back again. ♀ in hole. What the hell - here goes.

*♀648 removed 1400. Got her! Checked the nest: 8 eggs, 4 of which are big and long and 4 short and squat. When Stanback checked it earlier it was 3/3 - and the last 2 laid (not marked) were 1/1. Hence it would appear highly likely that the mix here is even between the ♀♀ at 4 eggs apiece.

Now - speaking of the ♀, who I bled, etc, and stuck in the cage. She turns out to be ♀648. ~~♂~~ ♀648 is one of 3 ♀♀ that moved together to Blomone in spring 1981 (with ♀649, ♀650). Later 2 of these birds sort of wandered off, leaving one that Susan eventually shot (♀649) for an experimental removal. In any case, ♀650 was seen at Prairie Home Field in spring 1985 - the same year that ♀1144, the other ♀ here at Murf - was born. Hence it is likely that ~~♂~~ ♀648 was at Murf that year also, and both (or rather all 3) were probably ~~sib~~ sisters from PHF. If this is true, then ♀648 is presumably an older sibling of ♀1144, and I mean much older, since ♀648 ~~could~~ could not have been born later than 1980, and hence is at least 5 years older than ♀1144!

Wow! She's now ~~here~~ gone, at least until Sunday.

Melanerpes formicivorus

Murf HNHR

28 May 830. Bird died overnight for no obvious reason. Damn. Experiment is obviously off.

15 June *Group update*

♀1143. Never here.

♀648 [redacted]. Moved here 29 Nov. 1987, died (removed) 27 May 1988

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CV#1 HNHR

6 April 1400. The hole here is in the Sycamore. It's in a "tube" going directly into the heart of the tree, and is as close to being uncuttable as any hole I've tried. I spent 1½ hrs or so and succeeded in cutting a very small piece out - enough to give me the hope of sticking my hand in (and scraping up my hand something fierce in the process) but not quite. They definitely seem to be incubating, whatever's in there.

Melanerpes formicivorus

Mill HNHR

15 June *Group update*

Only 1 ♂ here now. Second ub ♂ (5271) now gone. Last seen 26 August 1987, gone by Oct. 9 (although Connie never really did a thorough watch). →DA 17 Sept. I/M.

Melanerpes formivorus

CV#2 HNHR

12 March *Group update*
j1439. Last seen 14 Oct '87, gone by 14 Jan; → DA 29 Nov. 1987 ± 1 month.

15 June ♂♂1372 and ♂1375. Both here 10 March, gone by 25 April (more or less - Judy's watches). → D.A. 3 April ± 3 wks

23 July *Group update*
Lots of confusion here with another case of budding → ♂1373 found CV annex. See Mark's notes for details. We missed a nest here.
♂♂1372 and 1375 are the ♂♂ here at CV2. ♂1373 is up at CV annex with 2 ub ♀♀ (founded about 1 Apr.)

Melanerpes formicivorus

OK Corral HNHR

12 March *Group update*
♀1392. Last seen 3 Nov. '87, gone by 11 Dec. → D.A.
~~12 Dec. ± 2 wks~~ 22 Nov. '87 ± 2 wks
1390 → Def. a ♂ (fide Connie)

6 April 1420. Noone seen in any of the holes here (but I neglected to check the Sycamore).

15 June *Group Update*
♂1034, ♂1394. Both here 9 March (Connie), gone by 24 April →
D.A. 1 April ± 3 wks

Melanerpes formicivorus

Dark Hollow HNHR

16 January *Cerorup update*
♀1062. Last seen 19 May (Katy?), gone by 3 November (Connie) → DA 11 Aug ± 2 months.

1 March ♂1307. Has moved to group "Laguna." Was seen here as early as 26 Oct. 1987. Probably founded the group with everybody else on ~24 Sept.

6 April 1440. Noone in any holes that I could see.

Melanerpes formicivorus

Westgate HNHR

9 May 1700. Watching. Still no clue as to a nest here. But they definitely have stores.

1720. 5 birds here! ① ♂ UB / #1312.

1750. ② ♂M / Blk-UB(n) #1106, came and fed in a hole in the sycamore. They apparently have young babies. The hole is not going to be easy!

10 May 1000. Climbed the hole (!) and opened the nest: There were 6 babies, eyes not quite open but fat - about 7-8 days old, I'd guess. However, 1 of them - one of the biggest ones, too - was dead, for no obvious reason as far as I could tell.

Thus, there are 5 babies here, ready to be banded about 24 May.

~~13 May~~ 830. Set ambush at nest; trying to catch an ub bird.

25 May 500. Successfully ambushed at the high, non-nest hole, nabbing ♂1106, ♂1313, and an ub ♀, now ♀1571. This presumably means that ♂1312 was on the nest, and could mean that there's only 1 ♀ here. At least now we can watch and find out!

26 May 1845. Banded and bled the 5 babies here, who are big and bright and cute as buttons!

3 July 1015. Climbed the same nest hole, where they have 6 normal and 1 runt egg, for a total set of 7.

28 July 1030. Banded the 3 babies here as #1662-64. There are acorns remaining as well here.

Melanerpes formicivorus

Gate HNHR

19 January Ambushed the lower dead limb in the sycamore this evening, nabbing an unbanded ♂ and ♀ (now #1453 and 1452, respectively).

They were released early on 20 January.

6 April 1000. Opened a new hole they're building just up above the Starling hole in the sycamore. Not quite done with it yet.

20 April 930. 2 eggs, fresh, up in the high hole in the sycamore.

28 April 1130. 4 eggs.

15 June *Group Update*

Neither of the ub birds (5278 or 5280) are here any more; in fact, I think they never were here at all - instead, these extra birds were probably Horsetail birds. So I'm deleting them altogether.

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Melanerpes formicivorus

	Pipeline	HNHR
16 January	*Group update*	
	Sub (5276). Here on 7 Oct, gone by 26 Oct (Connie)	
	→ DA 16 Oct ± 1 wk. (1987).	
14 April	1200. Opened new hole lowish in the granary: 5 fresh eggs, marked.	

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Melanerpes formicivorus

Warp 5 HNHR

26 March 730. Ambushed this morning at the Black Oak, catching 2 birds, both ♀♀ and both unbanded, who are now #1467-68. One, after I let her go and while I was up in the tree waiting for the other, flew all the way over to a tree on the other side of Martin Road, on the site of School Hill, where she appeared to meet a 3rd bird. In any case, there is a group here! And they don't seem to be directly related to Wolfpack.

Jane saw an ub ♂ in the granary area while I was waiting for the 2nd ♀.

25 April 1430. Looked around for a nest here, but saw noone in any holes. I think there's still a group here, but I'm not sure.

11 May 1000. Watching from blind. There are birds and at least a few stores here.

1010. No problem! ♀ looking out of the ambush hole in the Black oak. Looks like they're incubating over there.

3 June 430. Ambushed at the nest, where there are 20 day-old babies, catching only a ♀! Could be a first! Furthermore, she had begun her molt!

15 June *Group Update*

This group was probably founded in August 1987, when Mark heard birds here. We'll assume there are 3 here (2♀♀ and 1♂), even though we don't really know what up with the ♂(♂).

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Melanerpes formicivorus

Wolfpack HN HR

16 January *Group update*
Add an unbanded ♀ here who presumably moved here on 7 Oct with ♀1333 following the death of the breeding ♀.

12 March ♂1247. Last seen 23 Aug., gone by 6 Oct. → DA 17 Sept ± 3w.

14 April 1200. 6 eggs here, fresh (Mark opened new hole)

15 June *Group Update*
♂995. Last seen 13 Jan, gone by 19 Feb. → D.A. 30 Jan ± 2wks.
(see Connie's notes)

Melanerpes formicivorus

Road 1 HNHR

15 January 730. After a good rain last night most of our ambushes didn't work, but we did catch 1 ub ♂, now #1452, up in the low hole high in the forest back behind (& above) the Black Oak nest tree (where birds also roosted).

Group update

Two new ub ♀♀ and 2 ub ♂♂ (1 now ♂1452), ~~were there~~ ~~sometime between~~ now definitely here - did we miss a nest? I guess so (♂1452 certainly could have been a 1st yr bird). I will assume they all emerged (fledged) on 10 Oct. 1987?

Well, Mark saw ub birds here in August, and there was some serious confusion here near the end of August. It looks like that a late spring nest (~ 15 July, say) was missed (see his 18 Aug notes) but it doesn't really seem like all were babies; in fact, there is no Breeder ♂ here! So, we'll have to make up a compromise: 2 babies, now both ♀♀, plus 2 new males, moved here ~ 15 Aug.

30 January 1000. Caught ♂1452 again in the same hole (after opening it - he wouldn't come out this time). I didn't do anything to him except replace the M band, which was the wrong size. Upon release, he flew down to Road Warrior - perhaps he belongs there and not R1?

1 March *Group Update*

♂1452. ~~Now~~ Not a R1 bird. A San Sebastian bird.

4 March Ambush new holes in Sycamore and in a Valley Oak on the flats. Caught an ub ♀ (now 1464) in the latter, ♀804 and an ub ♂ (now 1465) in the former.

Melanerpes formicivorus

Road J HNHR

12 March *Group update*
♀996. Last seen 3 Dec., gone by 13 Jan '88 → DA 22 Dec. ± 2w

27 March 2000. A night ambush at the "new" hole at finch's old Sycamore nest tree yielded 1 bird: ♀1464. She managed to get her head caught between the hole and the ambusher (only the 2nd time I can remember that happening) but she was fine anyway.
We let her go early on the 28th

15 June *Group update*
♀1248. Last seen 19 Feb, gone by 4 March (Connie) →
D.A 26 Feb. ± 1 wk.

Melanerpes formicivorus

Road Warrior HNHR

13 May 1830. Spurred on by, gosh, I don't know what, I watched here yesterday, finding several nice holes. Later, at dusk, ≥2 birds roosted in one of them (conspicuously on the hill overlooking the granary area, where there are stores remaining). This evening I opened it (it's a snag) and found 2 babies, eyes open, bushy-tailed, and ~15 days old. So no ambush, but it would be appropriate to catch some birds feeding at this long-neglected group.

14 May 1015. Set up to catch someone at the nest.

1200. No sign of a soul. Giving up for now.

1745. Tried again for an hour. Still nothing (but the babies are there!

15 May 715. And again-

800. Checked the babies - They're fine!

915. Well, I sure don't understand it, but They've outlasted me again. Maybe I can try again in a couple of days.

945.! Woke up to discover a feeding trip by an ♀! But she didn't go all the way into the hole.

19 May 415. Ambush to get birds roosting failed, but I went ahead and banded the 2 babies as #1557-1558.

25 May 400. Finally succeeded in nabbing the bird on the nest, who turned out to be my old favorite ♂1452, the bird I caught up near here on 15 January. Babies are still fine.

Melamerpes formicivorus

San Sebastian HNHR

30 January *Group Update*

This group apparently was demolished the day they were caught on 30 Oct. 1987. They were kept too long and RI took them over by the time they were released. Never seen again!

Melanerpes formicivorus

Finch HNHR

16 January *Group update*

This group currently defunct; RI birds use this area as of ~6 Oct 1987 (may a bit earlier). [illegible]

The current birds are all gone (61075, 2u6 ♂♂). [illegible]

*Q? Mark has 61334 resurrected here, but I can find no record (other than the computer file, which claims he was seen on 5 Oct 1987) that he was ever seen. I am returning this bird to his former state.

Walter D Koenig

Melanerpes formicivorus

Macflat

HNHR

21 January 1900. Caught 2 birds in an evening ambush in The Live Oak nest hole: ♂1073 and the nb ♀, now ♀1454.

12 March *Group update*

♂1292. Apparently last seen 28 May '87, gone by for sure 7 Oct '87 (Connie) → D.A. 17 Aug. ± 2 months

15 June *Group update*

♀1451. Last seen 12 Feb, gone by 15 April (est FED) → D.A. 13 March ± 1M.

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Melanerpes formicivorus

R3 HNHR

16 January *Group update*

♂1297. I caught him here on 18 June, gone by 22 Sept, → DA 31 July ± 1 month.

23 July ♂1297 is back. In fact, given that Connie didn't watch here much, we'll assume he was here the whole time.

Melanerpes formicivorus

School Hill HNHR

3 February 800. An ambush this morning at the Lower Big Blue Oak (old nest hole) yielded 5 birds: ♀260, ♂1384, ♂1385, ♂1388, and ♂1426, but not the ub ♂!!

1055. Finally a 6th bird from the hole - but also banded! (♂1387)

12 March *Group Update*

♂1386. Last seen 11 November '87, gone by 1 Jan. '88 →
D.A. 6 Dec. ± 3 wks.

15 March Ambushes this morning yielded a big Zippo! Partially because I was too stoned to realize ~~that~~ (=remember) that the 2 new holes in the traditional nest tree (one facing the forest, the other the exclosure) now connect, the bottom of the former having been hollowed out! Remember next time that you have to ambush both holes, Dr. Ozone!

6 April Lots of birds (7, to be exact) when I walked by. Five were in a nice pack, as though they were doing some serious mate-guarding. Noone in any holes, however.

11 April 930. All quiet; noone in any holes. Looks very suspicious.
940. I found them over in the forest. At least they look as though they're still mate-guarding!

12 April 1400. Watched here for 20 min. or so. Definitely still mate-guarding, roaming all other. Noone in any holes, either. Looks like it will be a while yet!

20 April Watched here this evening, not finding anything of special note with respect to a nest. But - I did watch a bird apparently roost out by himself on a limb high up in the 1st exclosure tree. Of course, I can't

* → see back

Lone roosting bird at School Hill, 20 April

~45' up.

Not-quite vertical limb.

Out in the open.

Melanerpes formicivorus

School Hill HNHR

(20 April) be positive, but it was quite dark when I left (the stars - or rather star - since it was mostly overcast) were out, along with a partial moon peeking through the clouds), and he, or she, didn't look like she/he was going anywhere.

24 April 1030. Sure looks like they're still mate-guarding up here. I watched for ~1 hr, seeing them show interest in a new hole low in ~~the~~ tree 2. But otherwise, no sign of nesting yet, other than the pack of 5-6 ♂♂ following the ♀ around on ~~the~~ tethers.

26 ~~April~~ 9 May 845. Noone in any holes!

1030. Watching. Birds are still going around in a nice pack. ① ♂ Or/Or #1385, a tad off on the sidelines. In fact, this bird is over in the next tree from the pack, occasionally carricking!

no! → This is ♀1461

1055. ② ♀ Wh/M #260. ♂1385 is very upset; karrit-cutting, garricking, etc. off by himself. Why has he been shunned?

1100.! Wait a minute - now it looks like the Or/Or bird is a ♀ over there!! Who is this bird? This might make more sense if it's not ♂1385 after all!

1105. ③ ♂ Lg-Yel/Blk #1387. ④ ♂ ub, maybe hanging out in part with the mystery ♀? Well, maybe, but he apparently belongs here.

Yes. It's definitely a ♀ over there - not ♂1385. Perhaps she's trying to entice away some (one?) of the hoard of ♂♂ trailing after ♀260?

1125. This mystery ♀ Or/Or is really trying to incite something here - she's garricking, drumming, etc. etc. But she's not being chased by the other birds, oddly enough. In fact ~~except that~~ a) she wakas when they all waka, and occasionally a ♂ will go

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School Hill HNHR

(9 May) over and say hello, or at least sit with her briefly. (So far only the NOBA♂ has done this for sure.)

1145. ④♂ DBlue #1388. Here's ♂ M/Or/Or #1385 with the pack.

1200. The pack is still cohesive, and they are still checking out holes (they just went down to the grown over one in the lower Blue Oak) But it doesn't really seem as though they've settled on one yet.

Meanwhile, the mysterious ♀ M/Or/Or wh? garricks on alone!

! Here's ③♂ wh-BP/wh-BP #1384. That's all the ♂♂ except ♂1426, who's probably here also...

Here we go: the mystery bird is ♀1461, banded in January at Knoll.

12 May 1100. Checked holes: still zilch.

19 May 1015. Watching from blind.

1100. ①♂ wh-Red/M #1384. Birds are still in a tight pack.

1105. ②♂ Or/Or #1385, ③♀ wh #260, checking out the holes in the traditional tree.

1130. Checked the holes over there: both in nice shape, but empty.

2 June 1800. Still no sign of anything. Time for another watch.

3 June 500. Watching from blind, such as it is.

520. Got it - ♀260, followed by a small hoard of ♂♂, just went into the traditional hole over in the Valley Oak on the side of the field. That's it, and she's probably laying eggs.

540 - Well, they may be close, but the hole (and the one above it) are still empty.

7 June 900. Brief check here, including opening those 2 holes again, which are still empty (though they've been deepening the lower one). I'm definitely worrying about this group...

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School Hill HNHR

10 June 1245. Noone in any holes, as usual. Watching for a bit.
1410. 7 birds altogether; no sign of a nest!

20 June 930. Bird in traditional hole: 1 egg, finally! Fresh.

22 June 1745. Hole empty! Makes me wonder whether it's possible that the problem here is too many males after all (♂ egg tossing?). It looks now like they just aren't going to make it, despite having acorns remaining.

27 June 500. An ambush at the low hole in ~~the~~ exclosure tree #4 (upper one) yield 6 birds - all ♂♂. They were ♂1385, ♂1387, ♂1388, ♂1426, and 2 ub ♂♂, now ♂1619 and ♂1620. God knows where yet another NOBA ♂ might have come from!

Group Update

I have to wonder about this 2nd NOBA ♂, who presumably makes 8 birds in the group (♀260 and 7 ♂♂), especially since I've counted 7 here several times. Hence, I'm going to have him move here as of June "0".

3 July 1045. Noone in any holes.

5 July 1845. " " " " . There are several hundred acorns remaining here, by the way.

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School Hill West — HNHR

11 April — 910. 2 eggs, fresh, in 1987 hole (the big knot).

12 April — 1430. 3 eggs. Maybe only 1 ♀ after all.

15 April — 1630. 4 eggs. Yep. 1 ♀ (3 as before + 1 new egg.)

24 April — 1100. Still 4 eggs, all opaque and developed but not hatched.

It just occurred to me to start keeping track of the fact that this is an ant tree.

26 April — 830. 3 young hatchlings plus egg #4, developed but May not hatch, I guess.

28 April — 945. 2 live babies, 1 dead baby, and egg #4, which died while trying to hatch (never quite made it out of the egg).

18 May — 930. Came up to band the babies, but nest empty! Failed! Well, as a consolation, the granary does appear to be out of stores.

26 May — 1215. Noone in any of the granary holes.

3 June — 600. " " " " " " "

10 June — 1230. " " " " " " "

18 June — 2000. 2 birds roosted together in the low hole in the granary tonight.

27 June — 430. 2 birds roosted last night, but ambush failed.

24 August — 1800. A nest! In the 3rd unopened hole. Banded 1 baby, #1671, bright and cheery and about 15 days old, I'd guess (but not overly fat). This means that the last egg date was somewhere about ~~28~~ 30 July!

They have a couple (only) fresh acorns stored here; thus, one might reasonably consider this a fall nest, I suppose.

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Arf, too HNHR

6 May 1300. Opened the hole and banded the 3 babies here. They are in a Blue Oak ant tree.

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Black Oak

HNHR

12 March *Group update*

Several birds to killoff:

♀1007. Last seen 2 July (Stanback?), gone by 5 Oct. (MTS)
→ D.A. ~~12 Sept. ± 2 months~~. 18 Aug. ± 1 month.

♀1346. last seen 1 March 1987! Gone by 26 June (MTS).
→ D.A. 30 April ± 2 month.

♂1408. Last seen 27 Nov. '87, gone by 22 Jan. →
D.A. 25 Dec. ± 1 month.

♀1409. Last seen 7 July (Cindy), gone by 5 Oct. (MTS)
→ 20 Aug ± 1 month.

10 May ♀1212 seen at SOBO. See SOBO notes. Also at SOBO power struggle: ♀1211 and ♀1410.

16 June *Group Update*

♂1209. Last seen 25 Feb, gone by 11 April (1st nest) →
D.A. 19 March ± 3 wks.

23 July ♀1211, ♀1212, and ♀1410 moved to SOBO ~12 May.

Melanerpes formicivorus

SQSO HNHR

12 March *Group Update*

8639. Last seen 16 Nov. 1986! ~~Gone, soup, log~~ This bird apparently returned, but just for a short time. We'll let him Disappear ~~October~~ 16 Dec. 1986 ± 1 month.

12 April 1700. Wandered around, finding nothing of note save a fair number of acorns and a (new?) hole just below where the limb broke in the Black Oak 2 years ago. Noone in it, but it's still about the only hole around that I've been able to find.

26 April 1600. Watched for sometime here, finding birds and some favorite trees, but uncovering no leads for possible nests.

10 May 1345. Watching. ① ♂ M DB-Wh(n) / Red # 736.

1400. ② ♀ DB / Wh-DB ? 1212 Seen very well, and ③ ♂ Yellow - / Orange M # 1039 (? probably).

The ♀ is surely ♀1212 from Black Oak

④ ♂ U6. ⑤ ♀ M /

12 May 605. Came to look for a nest only to find *Power Struggle* activity! Now watching from blind.

610. Here's ① ♀ DB / Wh-DB # 1212 from Black Oak. Several other banded ♀♀ here also. ② ♂ R-LP / M # 1039. ③ ♀ Red / DB-Wh(n) M / 1410? Legs switched?

There are about 10 birds here. ④ ♀ DB-Wh(n) / DGreen M # 1211 (BlkOak) ⑤ ♂ M / DB-Wh(n) # 736. Definitely a ♀ vacancy. Great! Looks like it will get filled by banded ♀♀ (from Black Oak!).

④ ♀ M / Red - / B-W(n) # 1410. A subordinate - got pecked by ♀1211 (I Think)

Meanwhile, ♂736 is on top of the granary drumming!

650. Already, except for an occasional chase, There are only 5-6 birds here (The 2 ♂♂ and 3-4 Black Oak ♀♀).

Melanerpes formicivorus

SOBO HNHR

(12 May) 700. ♀1410 just got pecked by ♀1212.

712. Oops. ©♂NOBA still here; pecked ♀1410 also!

730. Well, this looks like it. The only additional possibility would seem to be ♀1004 from Black Oak, but I don't think she's here. In any case, the NOBA♀ is gone.

The NOBA♂ is also clearly subordinate, now being pecked by one of the other ♂♂.

745. Relatively quiet. Leaving.

12 June 1545. Watching. All quiet.

17 June 1230. Watching from blind. There are very few, if any, acorns left here, by the way.

1345. Zilch. Zero. Nothing!. Going home. Phooey. (There was at least 1 bird here when I arrived.)

23 June 835. Watching from blind.

910. Somebody! ©♂ M/DB-W(u) DB-W(u)/R #736.

1035. That's it. Where is everyone here?

Melanerpes formicivorus

Arnold 1 HNHR

12 March *Group update*

♂1225. Last seen 16 Sept (Stanback, I guess), gone by 8 Oct. (Connie). Dis. Abt → 27 Sept. ± 1 wk.

23 July ♂1222. Last seen 8 Nov 1987, gone by 4 Feb. 1988 → D.A. 26 Dec. 1987 ± 1 month.

28 July 915. Banded the 2 babies here, #1660-1661. Lots of acorns remaining!

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Melanerpes formicivorus

Big Tree HA/HR

30 January *Group Update*
Add 61236 as on 18 Jan. See LA 2 notes.

16 June ♀♀1400, 1401. Last seen 28 Jan, gone by 24 Feb. (Connie)
→ D.A. 12 Feb. ± 2 wks.
Add: 61234. Moved here, joining his brother 61236. First seen 29 March, not there 24 Feb, Moved ~ 11 March ± 2wks.

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Keep Out HNHR

6 February 730. Ambushes in 2 holes in the Live Oak yielded only 2 birds, ♂1127 and ♂1219. Maybe next time.

5 March Ambushed here tonight while Nick Davies was here and got lucky - one bird - the unbanded ♀, now ~~RNB~~ ♀1466

12 March *Group update*

♂706. Last seen 30 Nov. (Connie), gone by 28 Jan → D.A. 29 Dec. ± 1M

♂1383. Last seen 20 Oct (MTS), gone by 8 Nov. (CHA) →
D.A. 28 Oct ± 1 wk.

♀5282. Last seen 25 Aug, not seen by Stanback on 10 Oct. The records, however, have this bird showing up on 1 Aug. '87. Consequently, for lack of more definitive information, I'm going to simply kill her off entirely and assume she never was really part of the group.

27 May 1850. Rushed back up here after Stanback told me about the babies here and banded/bled them (all 3)

16 June Smallish power struggle here on 29 March (MTS). Old ♀♀ gone, including the 1 I caught!

Group update

♀739. Last seen 28 Jan, presumably disappeared shortly before the 29 March power struggle, say ~~25~~ 15 March.
→ D.A. 25 March.

♀1381, ♀1466. Both now gone. Presumably these ♀♀ all disappeared in March; again will say 15 March.

♂1016. Last seen 26 Feb, gone by 16 June → D.A. 23 Apr. ± 1M.

♂1219, 1221, 1127, [illegible] & 1382. Became breeders ~29 March. There are ≥2 new ub ♀♀ here also.

Melanerpes formicivorus

Keep Out HNHR

19 August 730. A fabulous set of ambushes here: 9 birds (3 ub ♀♀) altogether from 2 holes.

In the nest tree (the dying Live Oak): ♂1016 and ♀ub=1669 (caught on the evening of 18 Aug; released 19 Aug).

In the granary (the Valley Oak): ♂1221, ♂1382, ♀ub=1668 (caught 18 Aug PM)

The hole in the granary was too deep to allow grabbing all the birds at night, so we had to let them come out in the morning. Quite a catch! ♂1127, ♂706, ♂1219, ♀ub=1670 (caught 19 Aug AM (same hole))

Group Update

♂706. Last had been seen by Connie on 30 Nov. 1987 (and not very well then!); not a trace since. I think I will therefore assume that he really did leave, and return this SUMMER (say 1 July).

♂1016. This bird was last seen on 26 Feb, and so I will hazard the guess that he was here all along.

3rd NOBA ♀ (=♀1670). Apparently a 3rd ♀ joined the group with ♀♀5310 and 5311 back in late March.

Melanerpes formicivorus

Lambert HNHR

1 March *Group Update*

Connie has seen ♀1378 and (amazingly) ♀1224 up here. (!) These are UAZ birds (or were.)

12 March ♂679. Last seen 16 June 1986! Was seen by Katy feeding at Arnold 1. Gone by 29 Oct. '86, D.A → 22 Aug ± 2 months.

♂1309. Last seen 27 March, disappeared for the spring, (1 May) most likely → D.A. ~~15~~ 15 April '8~~7~~ ± 2 wks

♂1311. About the same → ~~DD~~ DA 15 Apr. '8~~7~~ ± 2 wks

16 June ♀1378. Moved ~~here~~ from UAZ. Seen at UAZ on 15 Feb, at Lambert also on that day. Now at Lambert for their nest (since April) → Moved by ~15 March ± 1 month.

♀1028. Last seen 8 Jan., gone by 15 Feb. (Connie) →D.A. 23 Jan. ± 2 wks.

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Fanny Arnold HNHR

16 June *~~Group~~ Update*

♀1024. Last seen 8 Oct., gone by 14 Dec. → D.A. 11 Nov ± 1M

♀1249. Last seen 2 Feb., gone by 18 Apr. → D.A. 10 March ± 1 Month.

♀1250. Last seen 14 Dec., gone by 2 Feb. → D.A. 8 Jan. ± 3 wks.

Melanerpes formicivorus

UAZ HNHR

1 March *Group Update*

On 1 Feb. (1378) or 4 Feb. (1224) Connie reports that ♀1378 is here (and up at Lambert) and (more amazingly) ♀1224 (a 1986 NSAB bird!) up at Lambert.

12 March *Group update*

Connie's had a hard time censusing here. First census on 20 Oct '87. Nonetheless, it would seem time to knock off ♀1226. Last seen 29 April '87, seems to have been gone by June or early July 1987 (see MTS notes for censuses). → D.A. 15 May ± 2 wks.

15 June ♀1378. Moved to Lambert ~15 March. See Lambert notes.

♀1224. Kind of an enigma here: banded as a nestling in 1986, not seen again until up at Lambert on 5 Feb. 1988, and then vanished. Without a trace. We'll say "Left group about 4 Dec. ± 2 months". But in fact, as far as we know she left it long before this.

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Melanerpes formicivorus

LAZ HNHR

30 January *Group Update*

♂1236. Moved to Big Tree. Seen at LAZ by Connie on ~~[illegible]~~. ~~[illegible]~~. 14 December 1987 and 8 Jan. 1988. Seen at Big Tree on 8 Nov. 1987 and 28 Jan 1988. Obviously he's been thinking about it awhile, but we'll move him as of 18 Jan.

3 February An ambush in the burned Blue Oak tonight yielded 4 birds: ♀1117 (new), ♂611, ♂782, and ♂1234.

1 March *Group Update*

♀1117. Back here. Left back ~ Feb. 1986 (± 2 months) Presumably returned sometime after the death of the breeding ♀ here ~ June 1987.

Hence, Returned 0 Oct 1987 ± 3 month. ±2wks

12 March ♂1116. Last seen 14 Dec. (Connie), gone by 8 Jan, DA → 25 Dec

♂1237. Last seen 7 May (Cyndy), ~~gone~~ but also seen "Maybe" by Stenback on 5 Oct., gone by 14 Dec (Connie) → DA 9 Nov. ± 1 month.

♂5250 (NOBA). Last seen 11 Sept '87, gone by 5 Oct → D.A. 23 Sept. ± 1 wk.

16 June ♂1234. Moved to Big Tree ~ 11 March ± 2 wks, see Big Tree notes.

♂782. Last seen 24 Feb., gone by 29 March (MTS), → D.A. 11 Mar ± 2wks

♂5250. An ub ♂ is back here after having been gone all winter; we'll assume he's this bird.

17 June 1000. Watching nest; ambusher set up for ub ♂, if he comes!

1115 ♂611 around, but no feedings yet!

1200. I give up. Zilch.

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Bianca HNHR

6 February 730. A morning ambush in the new hole I found here (near the new granary) nailed both unbanded ♀♀. → now ♀1462 and 1463. Group is now (we presume) entirely banded!

213388.